

COURSE OUTLINE

Course Code / Title : HA4034 Causal Inference In Policy Evaluation

Pre-requisites : HA1003

No. of AUs. : 4

Contact Hours : 52

Course Aims

You will learn various empirical methods for policy evaluation to measure the causal effects of policies. This include regression, matching based on observables, difference-in-difference, instrumental variable, regression discontinuity design. You will work with real world data and replicate policy evaluations using these methods using STATA (statistical software). Finally, you will also learn how to conduct spatial analysis, learning how to collect and extract data across space, and create maps.

This course will prepare you how to manage data, conduct statistical analysis, interpret results and present research findings in a rigorous manner. This course will also be useful for equipping you with relevant skillsets for their final year project.

Intended Learning Outcomes (ILO)

By the end of the course, you should be able to:

1. Apply different empirical methods to establish the causal effects of policies using statistical software STATA
2. Assess the suitability of these methods to certain datasets and policies
3. Interpret and analyze the statistical output

Course Content

The course introduces the different empirical methods in causal inferencing and how to apply these methods to real world datasets to conduct policy evaluations. Candidates will learn how to use statistical software to visualize data, conduct empirical analysis and generate and present findings.

Course Assessment

CA1 - Replication exercises : 20%

CA2 - Replication exercises : 20%

CA3 - Replication exercises : 20%

CA4 - Project Work : 40%

Total -----

100%