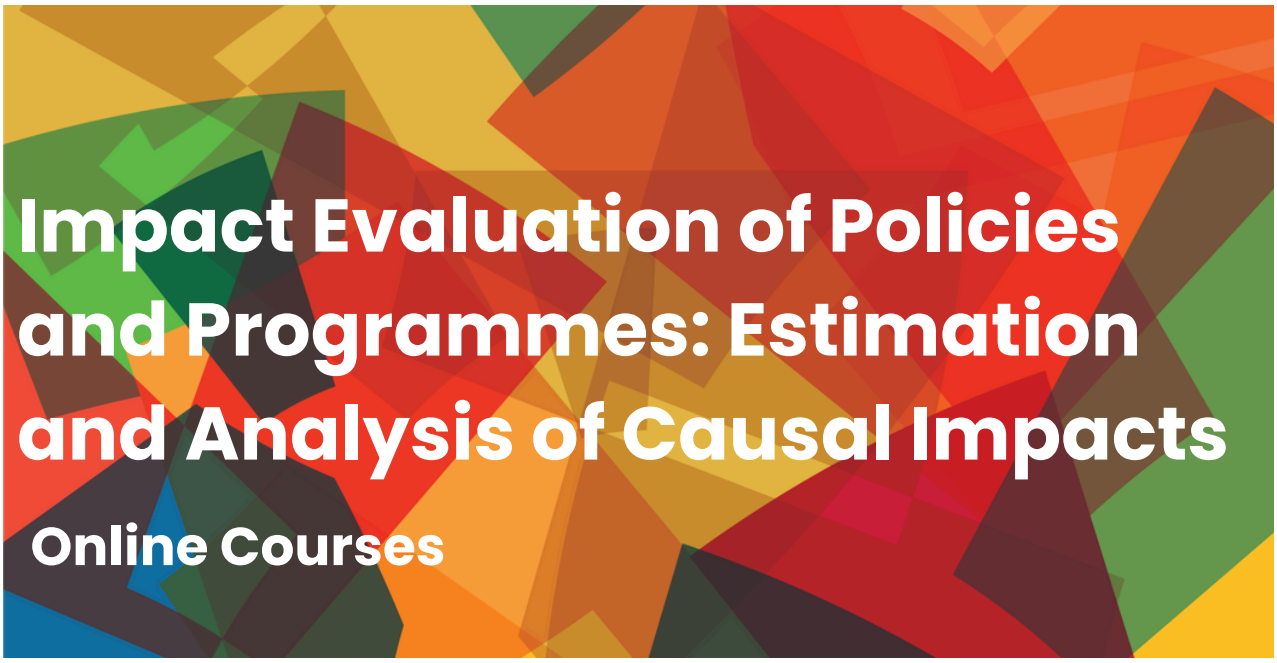
United Nations University
Maastricht Economic and Social Research Institute on
Innovation and Technology



Course Description

This course builds upon the introductory course on impact evaluation and provides a hands-on approach to estimating and analysing causal impacts using various techniques. These include randomised control trials and designs, regression discontinuity design, difference in differences, propensity score matching and instrumental variables method. Students will learn how to conduct an in-depth econometric estimation/analysis of causal impacts.

Audio-visual lessons will be provided together with datasets and step-by-step analysis guides to using various impact evaluation techniques in Stata software. Lessons and case studies will give participants a knowledge base to help them understand the applicability of methods to a given set of circumstances. Interested students should have intermediate knowledge of statistical analyses or econometrics.

Learning Goals

- Having knowledge of:
  - How to execute randomised and quasi experimental impact estimations.
  - Software code for data analysis.

- Understanding:
  - How to identify causal estimates of impacts through various techniques
  - How to assess robustnessand validity of each techniques.

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> “Tutoring to working professionals is a very enriching task, as students are always seeking to bridge practical situations from their daily lives to theory.”
>
> **-Lorena Giuberti Coutinho**
> **Course Tutor**

Key Concepts

- Estimation of causal impacts.
- Conducting validity tests and sensitivity analyses.
- Using State for analysis.

Prerequisites

- A Master’s degree (or equivalent) in Social Sciences.
- Knowledge in econometric anaylysis
- Basic understanding of impact evaluation purposes and methods.

ECTS equivalent

- Participants will earn 2 ECTS credits and receive certification via an online educational badge.

Estimated Workload

The estimated workload is 60 hours including:

- 10-15 hours per week.
- 10-15 hours per assignments/ oral exams.

Duration : 10 weeks

- 1 week to access the platform and become familiar with the material, 4 weeks of coursework, 1 week to submit the final assignment and 2 weeks for potential resits.

For More Information

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