Applied Econometrics and Policy Analysis: Data-Driven Decisions

5 – 9 April 2027
Rome (Italy)

UK Traininig
PARTNER



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Why This Course

In today's policy landscape, evidence-based decision-making is essential. Policymakers and analysts rely on robust econometric techniques to evaluate interventions, assess impacts, and guide resource allocation. Advanced quantitative skills empower professionals to produce reliable insights that drive effective policies.

This intensive 1-week program equips participants with advanced econometric methods for policy analysis and evaluation. Combining theoretical foundations with hands-on applications, the course enables participants to analyze real-world policy data, draw credible causal inferences, and translate complex findings into actionable recommendations.

What You'll Learn and Practice

By attending this program, you will:

- Master key econometric methods for causal inference and rigorous policy evaluation.
- Design and conduct impact assessments using quantitative techniques.
- Critically interpret empirical research and assess policy interventions.
- Apply statistical software to perform advanced econometric analyses.
- Communicate findings clearly to inform evidence-based policy decisions.

The Program Flow

Day 1: Foundations of Econometrics for Policy Analysis

- Introduction to causal inference in policy contexts.
- Review of regression analysis and hypothesis testing.
- Addressing endogeneity and omitted variable bias.
- Instrumental variables estimation and application examples.

Day 2: Quasi-Experimental Methods

- Difference-in-differences DiD estimation.
- Regression discontinuity designs for policy evaluation.
- Matching and propensity score methods.
- Synthetic control approaches for comparative case studies.



Day 3: Panel Data and Fixed Effects Models

- Introduction to panel data analysis.
- Fixed effects and random effects modeling.
- Dynamic panel models and time-varying effects.
- Robust and clustered standard errors for reliable inference.

Day 4: Advanced Topics in Policy Evaluation

- Designing and analyzing randomized controlled trials RCTs.
- Estimating heterogeneous treatment effects.
- Machine learning techniques for policy analysis.
- Bayesian methods for causal inference and policy decision-making.

Day 5: Synthesizing Evidence for Policy Recommendations

- Meta-analysis and systematic reviews of policy interventions.
- Cost-benefit and cost-effectiveness analysis.
- Communicating econometric results to policymakers and stakeholders.
- Ethics and transparency in policy evaluation research.

Individual Impact

- Gain confidence in designing and implementing rigorous policy evaluations.
- Strengthen skills in applied econometrics and statistical software.
- Enhance ability to interpret and synthesize complex empirical research.
- Translate quantitative findings into actionable, evidence-based policy recommendations.

Work Impact

- Inform policy and program decisions with credible, data-driven insights.
- Improve evaluation practices and accountability within organizations.
- Enhance analytical rigor and methodological standards in policy work.
- Support evidence-based strategies that maximize social, economic, and organizational impact.

Training Methodology

This program combines theory, practical exercises, and real-world applications to ensure immediate relevance and skill application:

- Hands-on data analysis using statistical software and real policy datasets.
- Case studies illustrating rigorous evaluation of policy interventions.
- Guided exercises in causal inference, impact assessment, and synthesis.
- Frameworks and tools for translating econometric results into policy recommendations.

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Beyond the Course

Participants will leave equipped to:

- Conduct high-quality, data-driven policy evaluations independently.
- Apply advanced econometric techniques to a wide range of policy contexts.
- Communicate complex quantitative findings effectively to policymakers.
- Contribute to evidence-based decision-making and strategic policy development.

