

## Programa Analítico de Disciplina

### ADM 643 - Métodos Quantitativos de Avaliação de Impacto em Políticas Públicas

Departamento de Administração e Contabilidade - Centro de Ciências Humanas, Letras e Artes

Catálogo: 2025

Número de créditos: 4

Carga horária semestral: 60h

Carga horária semanal teórica: 2h

Carga horária semanal prática: 2h

Semestres: I

#### Ementa

Definições básicas de avaliação de impacto em políticas públicas, premissas e experimentos aleatórios  
Avaliação de Efeitos com Dados em Painel  
Modelos para seleção de observáveis  
Modelos para seleção de não observáveis  
Tópicos adicionais em avaliação de impacto em políticas públicas

#### Conteúdo

Unidade	T	P	To
<b>1. Definições básicas de avaliação de impacto em políticas públicas, premissas e experimentos aleatórios</b> 1. Efeitos do tratamento: definições, premissas e problemas 2. Processos de controle aleatório 3. Dados não-experimentais e distribuições 4. Prática	6h	6h	12h
<b>2. Avaliação de Efeitos com Dados em Painel</b> 1. Modelo Pool 2. Modelo de Efeitos Fixos 3. Modelo de Efeitos Aleatórios 4. Outros modelos 5. Aplicações Práticas	6h	6h	12h
<b>3. Modelos para seleção de observáveis</b> 1. Métodos de Pareamento 2. Regressão 3. Score de Propensão 4. Aplicações Práticas	6h	6h	12h
<b>4. Modelos para seleção de não observáveis</b> 1. Variáveis Instrumentais 2. Abordagens de Equações Estruturais 3. Diferenças em Diferenças 1. Estimador para dois períodos de tempo 2. Múltiplos grupos e múltiplos períodos de tempo	6h	6h	12h

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3. Variações em variações 4. Aplicações Práticas			
<b>5. Tópicos adicionais em avaliação de impacto em políticas públicas</b> 1. Regressão descontínua 2. Política distributiva e efeito tratamento quantílico 3. Avaliação de tratamento dinâmico 4. Aplicações Práticas	6h	6h	12h
<b>Total</b>	<b>30h</b>	<b>30h</b>	<b>60h</b>

Teórica (T); Prática (P); Total (To);

## ADM 643 - Métodos Quantitativos de Avaliação de Impacto em Políticas Públicas

### Bibliografias básicas

Descrição	Exemplares
ABADIE, A.; CATTANEO, M. D. (2018) Econometric Methods for Program Evaluation. Annual Review of Economics. 10:465-503. Doi: <a href="https://doi.org/10.1146/annurev-economics-080217-053402">https://doi.org/10.1146/annurev-economics-080217-053402</a>	0
CERULLI, G. Econometric Evaluation of Socio-Economic Programs: Theory and Applications. Springer: 2015. Doi: <a href="https://doi.org/10.1007/978-3-662-46405-2">https://doi.org/10.1007/978-3-662-46405-2</a>	0
FRÖLICH, M.; SPERLICH, S. (2019). Impact Evaluation Treatment Effects and Causal Analysis. Cambridge University Press.	0
GERTLER, P. J. et al. (2018). Avaliação de Impacto na Prática. Banco Internacional para Reconstrução e Desenvolvimento/Banco Mundial. Segunda Edição. Disponível em: <a href="https://openknowledge.worldbank.org/bitstream/handle/10986/25030/9781464808890.pdf">https://openknowledge.worldbank.org/bitstream/handle/10986/25030/9781464808890.pdf</a>	0

### Bibliografias complementares

Descrição	Exemplares
FOUGÈRE, D.; JACQUEMET, N. (2020). Policy Evaluation Using Causal Inference Methods. IZA DP No. 12922. Available at: <a href="https://www.iza.org/publications/dp/12922/policy-evaluation-using-causal-inference-methods">https://www.iza.org/publications/dp/12922/policy-evaluation-using-causal-inference-methods</a>	0
IMBENS, G. W.; WOOLDRIDGE, J. M. (2009). Recent Developments in the Econometrics of Program Evaluation. Journal of Economic Literature. 47:1, 5-86. Doi: <a href="https://doi.org/10.1257/jel.47.1.5">https://doi.org/10.1257/jel.47.1.5</a>	0
KHANDKER, S. R., KOOLWAL, G. B., and Samad, H. A. (2010). Handbook on Impact Evaluation: Quantitative Methods and Practices. Number 2693 in World Bank Publications. The World Bank. Available at: <a href="https://openknowledge.worldbank.org/handle/10986/2693">https://openknowledge.worldbank.org/handle/10986/2693</a>	0
MORRA-IMAS, L. and RIST, R. (2009). The Road to Results: Designing and Conducting Effective Development Evaluations. World Bank Training Series. World Bank. Available at: <a href="https://openknowledge.worldbank.org/bitstream/handle/10986/2699/52678.pdf">https://openknowledge.worldbank.org/bitstream/handle/10986/2699/52678.pdf</a>	0
ROGERS, P. (2014). Overview of Impact Evaluation. Methodological Briefs Impact Evaluation No.1. Unicef. Available at: <a href="https://www.unicef-irc.org/KM/IE/impact_1.php#:~:text=Impact%20evaluation%20provides%20information%20about,support%20for%20an%20enabling%20environment">https://www.unicef-irc.org/KM/IE/impact_1.php#:~:text=Impact%20evaluation%20provides%20information%20about,support%20for%20an%20enabling%20environment</a>	0
WHITE, H. (2009). Theory-Based Impact Evaluation: Principles and Practice. 3ie, New Delhi. Available at: <a href="https://gsdrc.org/document-library/theory-based-impact-evaluation-principles-and-practice/">https://gsdrc.org/document-library/theory-based-impact-evaluation-principles-and-practice/</a>	0

# Syllabus

## ADM 643 - Quantitative Impact Assessment Methods in Public Policies

Departamento de Administração e Contabilidade - Centro de Ciências Humanas, Letras e Artes

Catalog: 2025

Number of credits: 4

Total hours: 60h

Weekly workload - Theoretical: 2h

Weekly workload - Practical: 2h

Period: I

### Content

Basic definitions of impact assessment in public policies, assumptions and randomized experiments

Effect Assessment with Panel Data

Models for selecting observables

Models for selecting unobservables

Additional topics in public policy impact assessment

### Course program

Unit	T	P	To
<b>1. Basic definitions of impact assessment in public policies, assumptions and randomized experiments</b> 1. Treatment effects: definitions, assumptions and problems 2. Random Control Processes 3. Non-experimental data and distributions 4. Practical Applications	6h	6h	12h
<b>2. Effect Assessment with Panel Data</b> 1. Pool Model 2. Fixed Effects Model 3. Random Effects Model 4. Other models 5. Practical Applications	6h	6h	12h
<b>3. Models for selecting observables</b> 1. Pairing Methods 2. Regression 3. Propensity Score 4. Practical Applications	6h	6h	12h
<b>4. Models for selecting unobservables</b> 1. Instrumental Variables 2. Structural Equation Approaches 3. Differences in Differences	6h	6h	12h

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<ul style="list-style-type: none"> <li>1. Estimator for two time periods</li> <li>2. Multiple groups and multiple time periods</li> <li>3. Variations on variations</li> <li>4. Practical Applications</li> </ul>			
<p><b>5. Additional topics in public policy impact assessment</b></p> <ul style="list-style-type: none"> <li>1. Discontinuous regression</li> <li>2. Distributional policy and quantile treatment effect</li> <li>3. Dynamic Treatment Assessment</li> <li>4. Practical Applications</li> </ul>	6h	6h	12h
<b>Total</b>	<b>30h</b>	<b>30h</b>	<b>60h</b>

Theoretical (T); Practical (P); Total (To);

## ADM 643 - Quantitative Impact Assessment Methods in Public Policies

Fundamental references	
Description	Copies
ABADIE, A.; CATTANEO, M. D. (2018) Econometric Methods for Program Evaluation. Annual Review of Economics. 10:465-503. Doi: <a href="https://doi.org/10.1146/annurev-economics-080217-053402">https://doi.org/10.1146/annurev-economics-080217-053402</a>	0
CERULLI, G. Econometric Evaluation of Socio-Economic Programs: Theory and Applications. Springer: 2015. Doi: <a href="https://doi.org/10.1007/978-3-662-46405-2">https://doi.org/10.1007/978-3-662-46405-2</a>	0
FRÖLICH, M.; SPERLICH, S. (2019). Impact Evaluation Treatment Effects and Causal Analysis. Cambridge University Press.	0
GERTLER, P. J. et al. (2018). Avaliação de Impacto na Practical. Banco Internacional para Reconstrução e Desenvolvimento/Banco Mundial. Segunda Edição. Disponível em: <a href="https://openknowledge.worldbank.org/bitstream/handle/10986/25030/9781464808890.pdf">https://openknowledge.worldbank.org/bitstream/handle/10986/25030/9781464808890.pdf</a>	0

Complementary references	
Description	Copies
FOUGÈRE, D.; JACQUEMET, N. (2020). Policy Evaluation Using Causal Inference Methods. IZA DP No. 12922. Available at: <a href="https://www.iza.org/publications/dp/12922/policy-evaluation-using-causal-inference-methods">https://www.iza.org/publications/dp/12922/policy-evaluation-using-causal-inference-methods</a>	0
IMBENS, G. W.; WOOLDRIDGE, J. M. (2009). Recent Developments in the Econometrics of Program Evaluation. Journal of Economic Literature. 47:1, 5-86. Doi: <a href="https://doi.org/10.1257/jel.47.1.5">https://doi.org/10.1257/jel.47.1.5</a>	0
KHANDKER, S. R., KOOLWAL, G. B., and Samad, H. A. (2010). Handbook on Impact Evaluation: Quantitative Methods and Practices. Number 2693 in World Bank Publications. The World Bank. Available at: <a href="https://openknowledge.worldbank.org/handle/10986/2693">https://openknowledge.worldbank.org/handle/10986/2693</a>	0
MORRA-IMAS, L. and RIST, R. (2009). The Road to Results: Designing and Conducting Effective Development Evaluations. World Bank Training Series. World Bank. Available at: <a href="https://openknowledge.worldbank.org/bitstream/handle/10986/2699/52678.pdf">https://openknowledge.worldbank.org/bitstream/handle/10986/2699/52678.pdf</a>	0
ROGERS, P. (2014). Overview of Impact Evaluation. Methodological Briefs Impact Evaluation No.1. Unicef. Available at: <a href="https://www.unicef-irc.org/KM/IE/impact_1.php#:~:text=Impact%20evaluation%20provides%20information%20about,support%20for%20an%20enabling%20environment">https://www.unicef-irc.org/KM/IE/impact_1.php#:~:text=Impact%20evaluation%20provides%20information%20about,support%20for%20an%20enabling%20environment</a>	0
WHITE, H. (2009). Theory-Based Impact Evaluation: Principles and Practice. 3ie, New Delhi. Available at: <a href="https://gsdrc.org/document-library/theory-based-impact-evaluation-principles-and-practice/">https://gsdrc.org/document-library/theory-based-impact-evaluation-principles-and-practice/</a>	0