**Course abstract, Б.Пр.В.П.2.1, Measuring Public Sector Efficiency: Quantitative Methods and Models**

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| **1. Course number, title, and ECTS** | **Б.Пр.В.П.2.1, Measuring Public Sector Efficiency: Quantitative Methods and Models, 5 ECTS**Course of specializationLectures – 24Seminars &Practical Classes – 32Contact Hours – 56Self-study Hours – 134 |
| **2. Course instructors during Self-Evaluation year and site visit year** | Mr. Andrey Achremenko, Professor, Doctor of Political ScienceMr. Egor Yureskul, Lecturer |
| **3. Prerequisites for the course** | Б.Пр.Б.5. Economic and Social StatisticsБ.Пр.Б.6. MathematicsБ.Пр.Б.7. MicroeconomicsБ.Пр.Б.13. PolitologyБ.Пр.Б.14. Macroeconomics |
| **4. Course objectives in relation to total curriculum** | The course has the following main objectives:* To introduce students to the concepts of efficiency and effectiveness as applied to both economic and political agents
* To acquaint students with existing measures of efficiency applied in government organizations
* To familiarize students with modern methods of calculating efficiency measures
* To make students proficient in using specialized software
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| **5. Learning outcomes** | By the end of the course, students should be able to:* know the basic methodological approaches to understanding and measuring public sector efficiency;
* be able to measure public sector efficiency given data of varying quality;
* use existing software packages to evaluate public sector efficiency.
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| **6. Course description** | The course is aimed at students willing to tackle the problem of measuring the efficiency of public sector organizations. The course will give an overview of existing approaches to the problem. After an introduction to underlying theories, the discipline will focus on practical application of various managerial, econometric and simulation methods used in practice by economic and political organizations. The key assumptions and limitations of each method are also considered. The course provides students with the necessary skills to analyze both public and private sector efficiency at different levels of aggregation by using both simple tools and specialized software. |
| **7. Learning and teaching methods** | During the course the following techniques are used:* Lectures
* Workshops
* Group work and group discussions
* Individual written exercises
* Essay
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| **8. Major topics covered** | The main topics of this course are the following:1. Key theoretical approaches to efficiency measurement2. Organizational approaches to measuring public sector efficiency3. Public Sector Productivity: managerial and econometric approaches4. Total Factor Productivity: concept and measurement5. Spatial measures of efficiency: Malmquist Index approach6. Data Envelopment Analysis: multiplier form and frontier estimation7. Data Envelopment Analysis: envelopment form, model orientation, scale effects, non-discretionary variables8. Stochastic Frontier Analysis: an overview of the method9. Dynamic models: a systemic approach to efficiency studies |
| **9. Prescribed books and readings** | The key literature and readings of this course are the following:1. Timothy J. Coelli et al. An Introduction to Efficiency and Productivity Analysis. Springer Science & Business Media,  20052. Rostein B., Teorell J. What Is Quality of Government? A Theory of Impartial Government Institutions. Governance: An International Journal of Policy, Administration, and Institutions, 2008 3. Kaufmann D.,  Kraay A., Mastruzzi M. Governance Matters IV: Governance Indicators for 1996-2004 4. Adsera A., Boix C., Payne M. Are You Being Served? Political Accountability and Quality of Government. The Journal of Law, Economics and Organization. 2003 5. Ахременко А.С. Оценка эффективности государства в производстве публичных услуг: теоретическая модель и методика измерения // ПОЛИС, 2012, №1.6. Ахременко А.С., Юрескул Е.А. Эффективность государственного управления: политологический и экономический подходы // Общественные науки и современность, №1, 20137. Fare R., Grosskopf Sh. and Roos P. 1997. Malmquist Productivity Indexes: A Survey of Theory and Practice. Springer. |
| **10. Way of examining** | The assessment criteria and grade system are the following:

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| *Mark’s components* | *Weight in the final mark* |
| Seminar and home assignments (demonstrates the degree to which students have grasped the current topic;In-class tests (demonstrates students’ ability to calculate efficiency measures using a variety of methods and specialized software);Essay | 0.5 |
|  Exam | 0.5 |

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