MDS

**Master of Data Science for
Public Policy and Management**

Application Guidelines

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Master of Data Science for
Public Policy and Management (MDS)

The MDS program is designed to nurture professionals who are adept in public data analysis to better address challenges in the fourth industrial revolution and the digital era. By integrating advanced data science methods like machine learning and network analysis into policy analysis and decision-making, graduates can contribute to more effective evidence-based policymaking.

The program is run on a full-time basis, specifically tailored for practitioners in the public sector or graduates seeking to enter or advance their careers in the public sector, such as public agencies, research institutes, or international organizations.

Academic Goals

• To foster policy experts in data science for the fourth industrial revolution and the digital transformation era

• To enhance evidence-based policymaking and policy analysis through advanced data science methods, such as network analysis, machine learning, and artificial intelligence

Program Characteristics

• A curriculum that incorporates modern data science techniques, equipping students with vital skills for contemporary policy challenges

• An interdisciplinary approach that spans Economics, Political Science, Public Administration, Sociology, and International Development

• A focus on applying data science methods to real-world policy issues, leveraging the faculty's expertise from academia and industry

Application Period

• For International Students

- 2024 Fall Admission: April 1~19, 2024

- 2025 Spring Admission: August 12~30, 2024

Academic Schedule

• 1st to 3rd term: Coursework on the campus*

• 4th term: Research project in the student's home country

* Approximately 1 year

Tuition Fee

• Total: 28,000,000 KRW

- 1st year: 21,000,000 KRW (7 million won × 3 terms)

- 2nd year: 7,000,000 KRW (7 million won × 1 term)

* Scholarship opportunities are available, including full/partial tuition waivers, stipends and working scholarships.

Courses Offered

Core

- Programming Fundamentals using Python
- R Fundamentals for Public Policy
- Statistical Foundations for Data Science
- Introduction to Computational Social Science

Elective

• **Concentration: Data Science for Public Policy and Management**
- Introduction to Network Science
- Introduction to Artificial Intelligence
- Network Analysis Seminar
- Machine Learning for Social Scientists
- Advanced Machine Learning
- Text Analysis for Social Scientists
- AI Ethics
- Data Visualization and Communication
- Quantitative Analysis of Science and Innovation
- Data Literacy
- Korea's Microdata Analytics for Public Policy
- Data Science Research Seminar

Language

- Language in Public Policy and Management (LPM)
- Korean Language and Culture I (KLCI)

Research Project

- Thesis or Capstone or Supervised Research Project

※ The list of courses is subject to change.

Graduation Requirements

• **Total 39 credits**

- Coursework (36 credits, 12 courses)

- Research Project (3 credits)