

# THREE EDUCATIONAL POLICIES

of the Data Science Program

# 1. Diploma Policy

## (Policy on Academic Degree Conferment)

Graduates are expected to:

- Acquire advanced special knowledge and skills in data science to support the creation of sustainable and prosperous regional communities by identifying and solving issues in the advancement of DX.
- The ability to extract valuable information from data by leveraging advanced knowledge in mathematics, statistics, and informatics, along with the latest machine learning and AI technologies, to identify and solve issues in a scientific and evidence-based manner. (Data science skills)
- The ability to mathematically understand the essence of the analysis subject based on data science knowledge and skills and interdisciplinary thought. (Data science skills)
- The ability to apply advanced knowledge and skills in data science, information science and technology, and management studies to solve issues, make decisions, and create value, thereby implementing them in society. (Social implementation skills)

## 2. Curriculum Policy (Curriculum to Achieve Educational Objectives)

The curriculum of the program is designed to:

- Provide courses to acquire advanced special knowledge in mathematics underpinning data science, including probability/statistics and multivariate analysis.
- Provide courses to acquire advanced special knowledge in data science interfaces, including data analysis methodologies and software.
- Provide courses to acquire advanced special knowledge related to rapidly developing AI technologies such as machine learning and deep learning.

## 3. Admission Policy

The program seeks applicants who:

- Those who have the basic academic skills required for learning data science, such as mathematics and statistics.
- Those who have motivation to address diverse issues through social implementation, leveraging cutting-edge data science-based methodologies.
- Those who have strong interest and motivation in contributing to regional communities through data science.