

TEACHING PLAN FOR DATA SCIENCE PROGRAM UNDERGRADUATE LEVEL – 2024



First year		Second year		Third year		Fourth year	
Semester 1A	Semester 2A	Semester 1A	Semester 2A	Semester 1A	Semester 2A	Semester 1A	Semester 2A
Introduction to Computer Basics ITE1201 (3cr)	Advanced Python Programming ITE1282 (3cr)	Probability and Statistics STA1101 (3cr)	Physical Education 2 (1cr)	(E) Getting and Cleaning Data DAS1204E (3cr)	(E) Data Visualization DAS1105E (3cr)	(E) Time Series Analytics DAS1107E (3cr)	(E) Decision Making Optimization for Business DAS1113E (3cr) <i>Data Analytics in Economics - Business</i>
English 1 ENG3101 (4cr)	English 3 ENG3103 (4cr)	Data Structures and Algorithms ITE1283 (3cr)	(E) Introduction to Artificial Intelligence ITE1218E (3cr)	Econometrics ECO1104 (3cr)	(E) Principles of Marketing MKT1101E (3cr)	(E) Management Information Systems ITE1129E (3cr) <i>Data Analytics in Economics - Business</i>	(E) Investment Management with Python DAS1114E (3cr) <i>Data Analytics in Finance</i>
English 2 ENG3102 (4cr)	English 4 ENG3104 (4cr)	English 5 ENG3105 (4cr)	Introduction to Databases ITE1207 (3cr)	Marxist-Leninist Philosophy POL1111 (3cr)	Scientific Socialism POL1113 (2cr)	(E) Financial Data Analytics DAS1109E (3cr) <i>Data Analytics in Finance</i>	(E) Data-driven Marketing DAS1117E (3cr) <i>Data Analytics in Marketing</i>
Project Design 1 SKI1107 (3cr)	Introduction to Law LAW1101 (3cr)	Computer Statistics DAS1101 (3cr)	Project Design 2 SKI1108 (3cr)	(E) Database Management Systems ITE1150E (3cr)	(E) Principle of Finance and Banking FIN1155E (3cr)	(E) Enterprise Resource Planning Systems EBU1133E (3cr) <i>Data Analytics in Marketing</i>	Elective Course 3 (3cr)
Basic Python Programming ITE1277 (3cr)	Advanced Mathematics MAT1103 (3cr)	Physical Education 1 (1cr)	Elective Course 1 (3cr)	(E) Machine Learning for Data Science DAS1131E (3cr)	Microeconomics ECO1101 (3cr)	(E) Business Process Analytics DAS1108E (3cr) <i>Data Analytics in Economics - Business</i>	Graduation Project / Thesis DAS1422/3 (6cr)
Physical Education module: choose 1 out of 5 subjects: Aerobics, Boxing, Vovinam, Dancesport, Bodybuilding	List of elective courses: <ul style="list-style-type: none"> • Global Citizenship • Japanese Concepts to Win Friends and Influence People • Country Studies of Japan • Country Studies of China • World Economics Geography • Cross-cultural Communication • Mental Health Education • Entrepreneurship 	List of elective courses: <ul style="list-style-type: none"> • Commercial Law • International Law • The Basic of Arts • Arts of Leadership • Professional Personal Branding • Diplomatic Protocol • Introduction to Digital Transformation • Global Issues • Enterprises Law 	List of elective courses: <ul style="list-style-type: none"> • Applied Data Analytics • Personal Financial Management • Global Strategic Management • Communication Psychology • Creative Presentation • Aesthetic Thinking • Diplomatic Reception and Table Art • Korean Traditional Culture • Human Civilization • Cultures of Southeast Asia Countries 	Marxist-Leninist Political Economics POL1112 (2cr)	History of the Communist Party of Vietnam POL1115 (2cr)	(E) Business Strategy Analytics DAS1112E (3cr) <i>Data Analytics in Economics - Business</i>	(E) Online Consumer Behavior EBU1127E (3cr) <i>Data Analytics in Marketing</i>
Data Science Internship DAS1326 (1cr)	Data Science Project DAS1427 (2cr)	Data Analytics in Economics and Business Specialization Project DAS1428 (3cr)	Data Analytics in Finance Specialization Project DAS1430 (3cr)	Data Analytics in Finance Specialization Project DAS1429 (3cr)	(E) Automation in Financial Investment DAS1110E (3cr)	(E) Data Mining for Big Data DAS1118E (3cr) <i>Data Analytics in Finance</i>	Graduation Internship DAS1320 (3cr)

Notations Used

Course name
Course ID (Credit)

Course information

(E) English-taught course

* Physical Education module: choose 1 out of 5 subjects: Aerobics, Boxing, Vovinam, Dancesport, Bodybuilding

- List of elective courses**
- Global Citizenship
 - Japanese Concepts to Win Friends and Influence People
 - Country Studies of Japan
 - Country Studies of China
 - World Economics Geography
 - Cross-cultural Communication
 - Mental Health Education
 - Entrepreneurship
 - Commercial Law
 - International Law
 - The Basic of Arts
 - Arts of Leadership
 - Professional Personal Branding
 - Diplomatic Protocol
 - Introduction to Digital Transformation
 - Global Issues
 - Enterprises Law
 - Applied Data Analytics
 - Personal Financial Management
 - Global Strategic Management
 - Communication Psychology
 - Creative Presentation
 - Aesthetic Thinking
 - Diplomatic Reception and Table Art
 - Korean Traditional Culture
 - Human Civilization
 - Cultures of Southeast Asia Countries