

TEACHING PLAN FOR DATA SCIENCE PROGRAM UNDERGRADUATE LEVEL - 2023

Broad
foundational
knowledge

Other general
education
knowledge

Basic and foundational
disciplinary
knowledge

Core
disciplinary
knowledge

Advanced disciplinary
knowledge, methods,
and tools

Related, cross-
disciplinary and
elective knowledge

First year		Second year		Third year		Fourth year		
Semester 1A	Semester 2A	Semester 1A	Semester 2A	Semester 1A	Semester 2A	Semester 1A	Semester 2A	
<p>Ký hiệu sử dụng</p> <div style="border: 1px solid black; padding: 2px; display: inline-block;"> Course name Course ID (Credit) </div> <p>Course information</p> <p>(E) English-taught course</p>								
		Probability and Statistics STA1101 (3tc)	Physical Education 2 (1tc)	Database Management Systems ITE1150 (3tc)	(E) Getting and Cleaning Data DAS1204E (3tc)	(E) Data Visualization DAS1105E (3tc)	(E) Data-driven Marketing DAS1117E (3tc) <i>Data Analytics in Marketing</i>	(E) Decision Making Optimization for Business DAS1113E (3tc) <i>Data Analytics in Economics - Business</i>
Introduction to Computer Basics ITE1201 (3tc)	Advanced Python Programming ITE1282 (3tc)	Data Structures and Algorithms ITE1283 (3tc)	Introduction to Databases ITE1207 (3tc)	Applied Economics ECO1105 (3tc)	(E) Principles of Marketing MKT1101E (3tc)	Elective Course 2 (3tc)	(E) Big Data Processing Technology DAS1119E (3tc) <i>Data Analytics in Big Data</i>	(E) Blockchain and Distributed Ledger Technologies DAS1115E (3tc) <i>Data Analytics in Finance</i>
English 1 ENG2101 (4tc)	English 3 ENG2103 (4tc)	English 5 ENG2105 (4tc)	English 7 ENG2107 (4tc)	Marxist-Leninist Philosophy POL1111 (3tc)	Scientific Socialism POL1113 (2tc)	(E) Time Series Analytics DAS1107E (3tc)	Graduation Project /Thesis DAS1422/3 (6tc)	Graduation Internship DAS1320 (3tc)
Semester 1B	Semester 2B	Semester 1B	Semester 2B	Semester 1B	Semester 2B	Semester 1B	Semester 2B	
English 2 ENG2102 (4tc)	English 4 ENG2104 (4tc)	English 6 ENG2106 (4tc)	Project Design 2 SKI1108 (3tc)	Marxist-Leninist Political Economics POL1112 (2tc)	History of the Communist Party of Vietnam POL1115 (2tc)	(E) Management Information Systems ITE1129E (3tc)	(E) Online Marketing MKT1108E (3tc)	
Project Design 1 SKI1107 (3tc)	Introduction to Law LAW1101 (3tc)	Physical Education 1 (1tc)	(E) Programming for Data Science with Python DAS1202E (3tc)	(E) Introduction to Artificial Intelligence ITE1218E (3tc)	Ho Chi Minh Ideology POL1114 (2tc)	(E) Business Process Analytics DAS1108E (3tc)	(E) Online Consumer Behavior EBU1127E (3tc)	
Basic Python Programming ITE1277 (3tc)	Advanced Mathematics MAT1103 (3tc)	Computer Statistics DAS1101 (3tc)	Physical Education 3 (1tc)	(E) The Economics of Money, Banking, and Financial Markets FIN1101E (3tc)	Econometrics ECO1104 (3tc)	(E) Business Strategy Analytics DAS1112E (3tc) <i>Data Analytics in Economics - Business</i>	(E) Digital Marketing Data Analytics DAS1116E (3tc) <i>Data Analytics in Marketing</i>	
			Elective Course 1 (3tc)		(E) Machine Learning ITE1173E (3tc)	(E) Financial Data Analytics DAS1109E (3tc)	(E) Social Media Data Analytics DAS1111E (3tc)	
			Military Education MIL1203 (8tc)			(E) Automation in Financial Investment DAS1110E (3tc)	(E) Data Warehouse and OLAP ITE1152E (3tc)	
<p>* Physical Education module: choose 1 out of 5 subjects: Aerobics, Boxing, Vovinam, Dancesport, Bodybuilding</p>		<p>List of elective courses</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> Country Studies of Japan Country Studies of China World Economics Geography Cross-cultural Communication The Basic of Arts </div> <div style="width: 20%;"> Arts of Leadership Introduction to Digital Transformation Commercial Law Applied Data Analytics Personal Financial Management </div> <div style="width: 20%;"> Communication Psychology Creative Presentation Professional Personal Branding Korean Traditional Culture Human Civilization </div> <div style="width: 20%;"> Cultures of Southeast Asia Countries </div> </div>				<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> (E) Investment Management with Python DAS1114E (3tc) <i>Data Analytics in Finance</i> </div> <div style="width: 20%;"> (E) Data Mining for Big Data DAS1118E (3tc) <i>Data Analytics in Big Data</i> </div> </div>		