

TEACHING PLAN FOR DATA SCIENCE PROGRAM UNDERGRADUATE LEVEL - 2022

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>Notations Used</p> <div style="border: 1px solid black; padding: 2px; display: inline-block;"> Course name Course ID (Credit) </div> <p style="margin-left: 20px;">Course information</p> <p>(E) English-taught course</p>									
		<div style="border: 1px solid orange; padding: 5px; width: 100px; margin: auto;"> Probability and Statistics STA1101 (3cr) </div>	<div style="border: 1px solid purple; padding: 5px; width: 100px; margin: auto;"> Physical Education2 (1cr) </div>	<div style="border: 1px solid teal; padding: 5px; width: 100px; margin: auto;"> Database Management Systems ITE1150 (3cr) </div>	<div style="border: 1px solid black; padding: 5px; width: 100px; margin: auto;"> (E) Getting and Cleaning Data DAS1204E (3cr) </div>	<div style="border: 1px solid teal; padding: 5px; width: 100px; margin: auto;"> (E) Data Visualization DAS1105E (3cr) </div>	<div style="border: 1px solid teal; padding: 5px; width: 100px; margin: auto;"> (E) Big Data Processing Technology DAS1119E (3cr) </div> <p style="font-size: small; color: red; text-align: center;">Data Analytics in Big Data</p>		
<div style="border: 1px solid orange; padding: 5px; width: 100px; margin: auto;"> Introduction to Computer Basics ITE1201 (3cr) </div>	<div style="border: 1px solid blue; padding: 5px; width: 100px; margin: auto;"> Advanced Python Programming ITE1282 (3cr) </div>	<div style="border: 1px solid green; padding: 5px; width: 100px; margin: auto;"> Data Structures and Algorithms ITE1283 (3cr) </div>	<div style="border: 1px solid green; padding: 5px; width: 100px; margin: auto;"> Introduction to Databases ITE1207 (3cr) </div>	<div style="border: 1px solid green; padding: 5px; width: 100px; margin: auto;"> Applied Economics ECO1105 (3cr) </div>	<div style="border: 1px solid blue; padding: 5px; width: 100px; margin: auto;"> (E) Principles of Marketing MKT1101E (3cr) </div>	<div style="border: 1px solid pink; padding: 5px; width: 100px; margin: auto;"> Elective Course 2 (3cr) </div>	<div style="border: 1px solid teal; padding: 5px; width: 100px; margin: auto;"> (E) Blockchain and Distributed Ledger Technologies DAS1115E (3cr) </div> <p style="font-size: small; color: red; text-align: center;">Data Analytics in Finance</p>		
<div style="border: 1px solid purple; padding: 5px; width: 100px; margin: auto;"> English 1 ENG2101 (4cr) </div>	<div style="border: 1px solid purple; padding: 5px; width: 100px; margin: auto;"> English 3 ENG2103 (4cr) </div>	<div style="border: 1px solid purple; padding: 5px; width: 100px; margin: auto;"> English 5 ENG2105 (4cr) </div>	<div style="border: 1px solid purple; padding: 5px; width: 100px; margin: auto;"> English 7 ENG2107 (4cr) </div>	<div style="border: 1px solid orange; padding: 5px; width: 100px; margin: auto;"> Marxist-Leninist Philosophy POL1111 (3cr) </div>	<div style="border: 1px solid orange; padding: 5px; width: 100px; margin: auto;"> Scientific Socialism POL1113 (2cr) </div>	<div style="border: 1px solid teal; padding: 5px; width: 100px; margin: auto;"> (E) Time Series Analytics DAS1107E (3cr) </div>	<div style="border: 1px solid teal; padding: 5px; width: 100px; margin: auto;"> Graduation Project / Thesis DAS1422/3 (6cr) </div>		
<div style="border: 1px solid purple; padding: 5px; width: 100px; margin: auto;"> English 2 ENG2102 (4cr) </div>	<div style="border: 1px solid purple; padding: 5px; width: 100px; margin: auto;"> English 4 ENG2104 (4cr) </div>	<div style="border: 1px solid purple; padding: 5px; width: 100px; margin: auto;"> English 6 ENG2106 (4cr) </div>	<div style="border: 1px solid orange; padding: 5px; width: 100px; margin: auto;"> Project Design 2 SKI1108 (3cr) </div>	<div style="border: 1px solid orange; padding: 5px; width: 100px; margin: auto;"> Marxist-Leninist Political Economics POL1112 (2cr) </div>	<div style="border: 1px solid orange; padding: 5px; width: 100px; margin: auto;"> History of the Communist Party of Vietnam POL1115 (2cr) </div>	<div style="border: 1px solid teal; padding: 5px; width: 100px; margin: auto;"> (E) Management Information Systems ITE1129E (3cr) </div>	<div style="border: 1px solid teal; padding: 5px; width: 100px; margin: auto;"> (E) Online Marketing MKT1108E (3cr) </div>		
<div style="border: 1px solid orange; padding: 5px; width: 100px; margin: auto;"> Project Design 1 SKI1107 (3cr) </div>	<div style="border: 1px solid orange; padding: 5px; width: 100px; margin: auto;"> Introduction to Law LAW1101 (3cr) </div>	<div style="border: 1px solid purple; padding: 5px; width: 100px; margin: auto;"> Physical Education1 (1cr) </div>	<div style="border: 1px solid green; padding: 5px; width: 100px; margin: auto;"> (E) Programming for Data Science with Python DAS1202E (3cr) </div>	<div style="border: 1px solid green; padding: 5px; width: 100px; margin: auto;"> (E) Introduction to Artificial Intelligence ITE1218E (3cr) </div>	<div style="border: 1px solid orange; padding: 5px; width: 100px; margin: auto;"> Ho Chi Minh Ideology POL1114 (2cr) </div>	<div style="border: 1px solid teal; padding: 5px; width: 100px; margin: auto;"> (E) Business Process Analytics DAS1108E (3cr) </div>	<div style="border: 1px solid teal; padding: 5px; width: 100px; margin: auto;"> (E) Online Consumer Behavior EBU1127E (3cr) </div>		
<div style="border: 1px solid blue; padding: 5px; width: 100px; margin: auto;"> Basic Python Programming ITE1277 (3cr) </div>	<div style="border: 1px solid orange; padding: 5px; width: 100px; margin: auto;"> Advanced Mathematics MAT1103 (3cr) </div>	<div style="border: 1px solid green; padding: 5px; width: 100px; margin: auto;"> Computer Statistics DAS1101 (3cr) </div>	<div style="border: 1px solid purple; padding: 5px; width: 100px; margin: auto;"> Physical Education3 (1cr) </div>	<div style="border: 1px solid blue; padding: 5px; width: 100px; margin: auto;"> (E) The Economics of Money, Banking, and Financial Markets FIN1101E (3cr) </div>	<div style="border: 1px solid green; padding: 5px; width: 100px; margin: auto;"> Econometrics ECO1104 (3cr) </div>	<div style="border: 1px solid teal; padding: 5px; width: 100px; margin: auto;"> (E) Business Strategy Analytics DAS1112E (3cr) </div> <p style="font-size: small; color: red; text-align: center;">Data Analytics in Economics - Business</p>	<div style="border: 1px solid teal; padding: 5px; width: 100px; margin: auto;"> (E) Digital Marketing Data Analytics DAS1116E (3cr) </div> <p style="font-size: small; color: red; text-align: center;">Data Analytics in Marketing</p>		
				<div style="border: 1px solid pink; padding: 5px; width: 100px; margin: auto;"> Elective Course 1 (3cr) </div>	<div style="border: 1px solid green; padding: 5px; width: 100px; margin: auto;"> (E) Machine Learning ITE1173E (3cr) </div>	<div style="border: 1px solid teal; padding: 5px; width: 100px; margin: auto;"> (E) Financial Data Analytics DAS1109E (3cr) </div>	<div style="border: 1px solid teal; padding: 5px; width: 100px; margin: auto;"> (E) Social Media Data Analytics DAS1111E (3cr) </div>		
				<div style="border: 1px solid purple; padding: 5px; width: 100px; margin: auto;"> Military Education MIL1203 (8cr) </div>			<div style="border: 1px solid teal; padding: 5px; width: 100px; margin: auto;"> (E) Automation in Financial Investment DAS1110E (3cr) </div>	<div style="border: 1px solid teal; padding: 5px; width: 100px; margin: auto;"> (E) Data Warehouse and OLAP ITE1152E (3cr) </div>	
						<div style="border: 1px solid teal; padding: 5px; width: 100px; margin: auto;"> (E) Investment Management with Python DAS1114E (3cr) </div> <p style="font-size: small; color: red; text-align: center;">Data Analytics in Finance</p>	<div style="border: 1px solid teal; padding: 5px; width: 100px; margin: auto;"> (E) Data Mining for Big Data DAS1118E (3cr) </div> <p style="font-size: small; color: red; text-align: center;">Data Analytics in Big Data</p>		
<p>* Physical Education module: choose 1 out of 4 subjects: Aerobics, Boxing, Vovinam, Bodybuilding</p>		<p>List of elective courses</p> <div style="display: flex; justify-content: space-between; font-size: small;"> <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>							