

No	Subject code	Subjects	Credits	Credit hours			Pre-requisite (s) subject code
				Theory	Practice	Self-study	
I	General knowledge module (Subject 8-9 are not included)		21				
1	PHI1006	<i>Marxist-Leninist Philosophy</i>	3	30	15	0	
2	PEC1008	<i>Marx-Lenin Political Economy</i>	2	20	10	0	PHI1006
3	PHI1002	<i>Scientific Socialism</i>	2	30	0	0	
4	HIS1001	<i>Revolutionary Guidelines of Vietnam Communist Party</i>	2	20	10	0	
5	POL1001	<i>Ho Chi Minh's Ideology</i>	2	20	10	0	
6	FLF1107	<i>English B1</i>	5	20	35	20	
7	FLF1108	<i>English B2</i>	5	20	35	20	
8		<i>Physical Education</i>	4				
9		<i>National Defence Education</i>	8				
II	Field-Based Knowledge		23				
10	INS1014	<i>English for Academic Purposes 1</i>	4	30	30	0	
11	INS1053	<i>Introduction to BDA</i>	2	15	15	0	
12	INT1004	<i>Introduction to Informatics 2</i>	3	17	28	0	
13	MAT1092	<i>Advanced Mathematics</i>	4	45	15	0	
14	MAT1004	<i>Theory of Probability and Mathematical Statistics</i>	3	27	18	0	
15	INS2065	<i>Computer Based Technologies</i>	2	18	12	0	INT1004

No	Subject code	Subjects	Credits	Credit hours			Pre-requisite (s) subject code
				Theory	Practice	Sel f-study	
16	INS2020	<i>Programming 1</i>	3	30	15	0	
17	PSY1050	<i>Introduction to Psychology</i>	2	24	6	0	
III	Area-Based Knowledge		14				
18	INS3009	<i>Entrepreneurship</i>	3	36	9	0	
19	THL1057	<i>Introduction to Law</i>	2	24	6	0	
20	INE1050	<i>Microeconomics</i>	3	36	9	0	
21	INE1051	<i>Macroeconomics</i>	3	36	9	0	
22	INS2019	<i>Business Organization and Management</i>	3	36	9	0	
IV	Discipline-Based Knowledge		24				
IV.1	Compulsory subjects		18				
23	INS3063	<i>Enterprise Analytics for Decision Support</i>	3	27	18	0	
24	INS3062	<i>Principles of Information Security</i>	3	27	18	0	INS2025
25	INS2023	<i>Operations Management</i>	3	36	9	0	INS2019
26	INS2037	<i>Business Information Systems and Processes</i>	3	27	18	0	INT1004
27	INS2051	<i>Quantitative Methods for Management</i>	3	27	18	0	MAT1004
28	INS2055	<i>Database Systems</i>	3	27	18	0	INT1004
IV.2	Elective subjects		06/18				
29	INS2022	<i>Legal, Ethical, Social Environment of Business</i>	3	27	18	0	THL1057
30	INS2058	<i>Intellectual Property Rights</i>	3	27	18	0	THL1057
31	INS2053	<i>Web Authoring and Web Management</i>	3	27	18	0	INT1004
32	INS3066	<i>Enterprise Business Solutions</i>	3	27	18	0	INS2023
33	INS3059	<i>IT Project Management</i>	3	27	18	0	INS2023
34	INS2060	<i>IT and Business Innovation</i>	3	27	18	0	INS2019

No	Subject code	Subjects	Credits	Credit hours			Pre-requisite (s) subject code
				Theory	Practice	Self-study	
V	Specialized Knowledge		63				
V.1	Compulsory subjects		28				
35	INS2004	<i>Economic Statistics</i>	3	27	18	0	MAT1004
36	INS2061	<i>Data Mining and Business Analytics</i>	3	27	18	0	MAT1004 INS2055
37	INS3073	<i>Data Warehousing and Business Analytics</i>	3	30	15	0	INS3063
38	INS3047	<i>Python programming</i>	3	27	18	0	INS2020
39	INS3048	<i>Optimization in Quantitative Management</i>	3	27	18	0	INS2051
40	INS3049	<i>Econometrics</i>	4	40	20	0	MAT1004
41	INS3050	<i>Data Structures and Algorithms</i>	3	27	18	0	INS2020
42	INS3075	Seminar	3	27	18	0	
43	INS3008	Project	3	27	18	0	
V.2	Elective subjects		06/15				
44	INS3060	<i>E-Commerce</i>	3	27	18	0	
45	INS3076	<i>Big Data Analytics</i>	3	27	18	0	
46	INS3046	<i>Machine Learning</i>	3	27	18	0	MAT1004
47	INS3061	<i>Enterprise Information Systems</i>	3	27	18	0	INS2019 INS2037
48	INS3021	<i>Supply Chain Management</i>	3	27	18	0	INS2019
V.3	Elective courses/ Specialized and supplementary courses		04/10				
49	INS1005	<i>IT Research Methodology</i>	2	18	12	0	INS1016
50	INS2059	<i>Leadership and Team Building</i>	2	18	12	0	INS1016
51	INS3077	<i>Big Data, Big Responsibilities: The Law and Ethics of Business Analytics</i>	2	20	10	0	
52	INS3078	<i>Management Science</i>	2	18	12	0	INS2051
53	SOC1050	<i>Introduction to Sociology</i>	2	24	6	0	
V.4	Selected in-depth knowledge electives		15				

No	Subject code	Subjects	Credits	Credit hours			Pre-requisite (s) subject code
				Theory	Practice	Self-study	
V.4.1	Analytical models development		15				
54	INS3079	<i>Statistical Models for Data Analysis 1</i>	3	27	18	0	
55	INS3082	<i>Statistical Models for Data Analysis 2</i>	3	27	18	0	INS3079
56	INS3083	<i>Data visualization and analytics</i>	3	27	18	0	MAT1004 INS3047
57	INS3069	<i>Decision Support Systems</i>	3	30	15	0	INS2061 INS3063
58	INS3080	<i>Artificial Intelligence</i>	3	30	15	0	INS3061 INS2023
V.4.2	Financial data analysis		15				
59	INS2015	<i>Fundamentals of Finance</i>	3	30	15	0	INE1051
60	INS3007	<i>Corporate Finance</i>	3	30	15	0	INS2015
61	INS3084	<i>Financial Time Series</i>	3	30	15	0	INS2051
62	INS3085	<i>Financial Computing for Actuaries</i>	3	30	15	0	INS2051
63	FIB3005	<i>Investment and Portfolio Management</i>	3	30	15	0	INS3007
V.4.3	Marketing Data Analysis		15				
64	INS2003	<i>Principles of Marketing</i>	3	36	9	0	
65	INS3086	<i>Data and Analysis for Marketing Decisions</i>	3	36	9	0	INS2003 INS2061
66	INS3087	<i>Models for Marketing Strategy</i>	3	36	9	0	
67	INS3088	<i>Experiments for Business Decision Making</i>	3	36	9	0	
68	INS3089	<i>Quantitative Models in Marketing Research</i>	3	36	9	0	INS2051
V.5	Internship and Graduation/ Alternative subjects for Dissertation		10				
69	INS4001	<i>Internship</i>	5	0	75	0	INS3059 INS3061
70	INS4011	<i>Graduation Thesis</i>	5	0	75	0	
	Alternative subjects for Dissertation						

No	Subject code	Subjects	Credits	Credit hours			Pre-requisite (s) subject code
				Theory	Practice	Self-study	
71	INS4016	<i>Advanced Data Analytics</i>	2	20	10	0	INS3046
72	INS4017	<i>Modern Data Mining</i>	3	27	18	0	INS2061
Total			145				