

No	Subject code	Subjects	Credits	Credit hours			Pre-requisite (s) subject code
				Theory	Practice	Self-study	
I	General knowledge module <i>(Subject 8-9 are not included)</i>		21				
1	PHI1006	<i>Marxist-Leninist Philosophy</i>	3	30	15		
2	PEC1008	<i>Marx-Lenin Political Economy</i>	2	20	10		PHI1006
3	PHI1002	<i>Scientific Socialism</i>	2	30	0		
4	HIS1001	<i>Revolutionary Guidelines of Vietnam Communist Party</i>	2	20	10		
5	POL1001	<i>Ho Chi Minh's Ideology</i>	2	20	10		
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		26				
10	INS3107	<i>Programming Techniques</i>	3	27	18		
11	INS1058	<i>Applied informatics</i>	3	27	18		
12	MAT1092	<i>Advanced mathematics</i>	4	45	15		
13	MAT1004	<i>Theory of Probability and Mathematical Statistics</i>	3	27	18		
14	INS1044	<i>Physics</i>	3	27	18		

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				Theory	Practice	Self-study	
15	THL1057	<i>Introduction to Law</i>	2	24	6		
16	INS2059	<i>Leadership and Team Building</i>	2	21	9		
17	INS1062	<i>Personal Development and Career Management</i>	3	36	9		
18	INS1061	<i>Introduction to Economics</i>	3	36	9		
III	Area-Based Knowledge		23				
19	INS2031	<i>Electrical Engineering</i>	3	30	15		INS1044
20	INS1063	<i>Introduction to ISE & Logistics</i>	2	15	15		
21	INS2080	<i>Databases</i>	3	27	18		INS1058
22	INS2093	<i>Web design and development</i>	3	27	18		INS1058
23	INS2089	<i>Operation Research</i>	3	30	15		MAT1004
24	INS3009	<i>Entrepreneurship</i>	3	45	0		
25	INS2086	<i>Project I</i>	3	0	45		
26	INS4031	<i>Internship</i>	3	0	45		
IV	Discipline-Based Knowledge		29				
IV. 1	Compulsory subjects		23				
27	INS3207	<i>Engineering Economics</i>	3	30	15		INS1061, MAT1092
28	INS3208	<i>Project Management</i>	2	24	6		INS1061
29	INS2070	<i>Engineering Graphics and CAD</i>	3	30	15		
30	INS2023	<i>Operations Management</i>	3	36	9		
31	INS3070	<i>Information Systems Management</i>	3	30	15		INS1058
32	INS3213	<i>Data Analytics</i>	3	30	15		MAT1004

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				Theory	Practice	Self-study	
33	INS3080	<i>Artificial Intelligence</i>	3	30	15		MAT1004
34	INS3100	<i>Project II</i>	3	0	45		
IV.2	<i>Elective subjects</i>		6/12				
35	INS3173	<i>Marketing and Communications</i>	2	24	6		
36	INS3209	<i>Customer Relationship Management</i>	2	24	6		
37	INS3210	<i>Technology Management</i>	2	24	6		
38	INS2088	<i>Computer architecture and industrial communication networks</i>	2	24	6		
39	INS3139	<i>Digital Skills and Innovation</i>	2	24	6		
40	INS3214	<i>Production Management</i>	2	24	6		
V	Specialized Knowledge		46				
V.1	<i>Compulsory subjects</i>		12				
41	INS3215	<i>System Simulation and Analysis</i>	3	30	15		
42	INS3216	<i>Human - Computer Interaction</i>	3	36	9		INS3107
43	INS3217	<i>Quality Management</i>	3	30	15		INS1061
44	INS3021	<i>Global Supply Chain Management</i>	3	30	15		
V.2	<i>Selected in-depth knowledge electives (according to one of two majors)</i>		24/48				
V.2.1	<i>Industrial systems engineering</i>		24				
45	INS3218	<i>Work Measurement and Design</i>	3	36	9		INS2059, INS2070

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				Theory	Practice	Self-study	
46	INS3219	<i>Industrial Design and Product Development</i>	3	30	15		INS2070
47	INS3220	<i>Applied Information Technology in Industrial Systems</i>	3	30	15		
48	INS3221	<i>Location & Ground Design in Industrial Systems</i>	3	36	9		
49	INS3222	<i>Production Control Systems</i>	3	30	15		
50	INS3223	<i>CAD/CAM Technology</i>	3	30	15		INS2070
51	INS3143	<i>Measurement Techniques and Sensors</i>	3	27	18		
52	INS3231	<i>Project III: System Engineering</i>	3	0	0	45	
V.2.2	<i>Logistics</i>		24				
53	INS3224	<i>Moderation Techniques in Production and Services</i>	3	30	15		
54	INS3225	<i>Logistic Systems</i>	3	36	9		
55	INS3226	<i>Forecasting Techniques</i>	3	27	18		MAT1004
56	INS3227	<i>Purchase Management</i>	3	36	9		
57	INS3228	<i>Lean Production System</i>	3	36	9		INS1061
58	INS3229	<i>Applied Information Technologie in Logistics</i>	3	36	9		INS3107
59	INS3230	<i>Inventory and Material Management</i>	3	36	9		
60	INS3232	<i>Project IV: Logistics</i>	3	0	0	45	

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				Theory	Practice	Self-study	
V.3	<i>Graduation/ Alternative subjects for Dissertation</i>		10				
61	INS4001	<i>Internship</i>	5	0	0	75	
62	INS4014	<i>Graduation Project</i>	5	0	0	75	
	Total		145	<i>Awarded a Bachelor's Degree</i>			
VI	<i>Block of knowledge for students who want to get a master's degree</i>		35				
VI.1	General knowledge module		3				
67	PHI5001	<i>Philosophy</i>	3	30	15		
VI.1	Basic and specialized knowledge		14				
VI.1.1	<i>Compulsory subjects</i>		11				
63	INS7055	<i>Decision Analysis in Engineering</i>	3	30	15		
64	INS7035	<i>Optimization models and Algorithms</i>	2	30	15		
65	INS7056	<i>International transport and Logistics</i>	3	36	9		
66	INS7025	<i>Big Data Analytics</i>	3	27	18		
VI.1.2	<i>Elective subjects</i>		4/8				
68	INS7034	<i>Research Methodology</i>	2	24	6		

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69	INS7058	<i>Experimental Design</i>	2	24	6		
70	INS7059	<i>Retail Management</i>	2	24	6		
71	INS7060	<i>Production Planning</i>	2	24	6		
VI.3	<i>Internship and MSc Graduation Thesis</i>		17				
72	INS7061	<i>Internship</i>	5	0	0	75	
73	INS7206	<i>Thesis</i>	12	0	0	180	
Total			180	Awarded a Master's Degree			