

**CHƯƠNG TRÌNH ĐÀO TẠO NGÀNH KỸ THUẬT HỆ THỐNG CÔNG NGHIỆP
KHÓA 2020- TRÌNH ĐỘ AE1**

(Đính kèm Quyết định số /QĐ-ĐHQT ngày / /2020 của
Hiệu trưởng trường Đại học Quốc tế)

**TOTAL CREDITS: 152 (Note: Credits of Physical Training 1 and
Physical Training 2 are not included in cumulative credits)**

No.	Courses code	Courses	Credits
Semester 1			
1	EN007IU	Writing AE1	2
2	EN008IU	Listening AE1	2
3	MA001IU	Calculus 1	4
4	PH013IU	Physics 1	2
5	PH014IU	Physics 2	2
6	PT001IU	Physical Training 1	3
7	CH012IU	Chemistry Laboratory	1
8	CH011IU	Chemistry for Engineers	3
		Total credits	19
Semester 2			
9	EN011IU	Writing AE2	2
10	EN012IU	Speaking AE2	2
11	MA003IU	Calculus 2	4
12	PE008IU	Critical Thinking	3
13	PT002IU	Physical Training 2	3
14	IS001IU	Introduction to Industrial Engineering	1
15	IS054IU	Engineering Drawing	3
16	PH015IU	Physics 3	3
		Total credits	21
Summer semester			
17	PE015IU	Philosophy of marxism and Leninism	3
18	PE016IU	Political economics of marxism and leninism	2
		Total credits	5
Semester 3			
19	MA027IU	Applied Linear Algebra	2
20	IS019IU	Production Management	3
21	IS086IU	Introduction to Computing	3

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22	IS004IU	Engineering Probability & Statistics	4
23	MA023IU	Calculus 3	4
24	PE017IU	Scientific socialism	2
25	IS090IU	Engineering Mechanics – Dynamics	2
		Total credits	20
Semester 4			
26	IS020IU	Engineering Economy	3
27	IS081IU	Deterministic models in OR	4
28	IS017IU	Work design & Ergonomics + Lab	4
29	IS085IU	CAD/CAM/CNC	3
30	IS034IU	Product Design & Development	3
31	PE018IU	History of the Communist Party of Vietnam	2
32	PE019IU	HCM' s thoughts	2
		Total credits	21
Summer semester			
33	IS052IU	<i>Internship 1</i>	2
34		Military Training	0
		Total credits	2
Semester 5			
35	IS040IU	Management Information System	3
36	PE014IU	Environmental Science	3
37	IS025IU	Quality Management	3
38	IS026IU	Project Management	3
39	IS024IU	Probabilistic Models in OR	3
40	IS089IU	Numerical methods	3
	IS__IU	Nhóm tự chọn số 01 - ISE Elective Course (choose 1 course below)	3
41	IS031IU	Experimental Design	3
42	IS087IU	Manufacturing Processes	3
43	IS058IU	Time series & forecasting technique	3
		Total credits	21
Semester 6			
44	IS079IU	Scientific Writing	2
45	IS028IU	Simulation Models in IE	4
46	IS027IU	Scheduling & Sequencing	3
47	IS041IU	Lean Production	3
48	IS078IU	Logistics engineering & supply chain design	3
49	PE020IU	Ethnics and professional skills for engineers	3

TOTAL CREDITS: 152 (Note: Credits of Physical Training 1 and

		<i>Total credits</i>	18
Summer semester			
50	IS053IU	<i>Internship 2</i>	3
		<i>Total credits</i>	3
Semester 7			
51	IS083IU	Capstone Design	3
52	IS033IU	Multi-Criteria Decision Making	3
53	IS032IU	Facility Layout	3
			6
	IS__IU	Nhóm tự chọn số 02 - ISE Elective Course (choose 2 courses below)	
54	IS080IU	Creative Thinking	3
55	IS035IU	Systems Engineering	3
56	IS043IU	Flexible Manufacturing Systems	3
57	IS045IU	Leadership	3
58	IS023IU	Inventory Management	3
59	IS082IU	Retail Management	3
60	IS067IU	International Transportation & Logistics	3
61	IS062IU	E-Logistics in Supply Chain Management	3
62	____IU	Nhóm tự chọn số 03 - Free Elective Course (choose 1 course)	3
		<i>Total credits</i>	18
Semester 8			
63	IS048IU	Thesis research	10
		<i>Total credits</i>	10