



LEVEL IE1 (35 ≤ TOEFL iBT ≤ 45 or IELTS = 4.5)						
No.	Course ID	Course	Credits			ECTS
			Theory	Practice	Total	
Semester 1			30	0	30	46.2
1	ENTP01	IE1	17	0	17	26.18
2	ENTP02	IE2	13	0	13	20.02
Semester 2					19	30.18
3	EN007IU	Writing AE1	2	0	2	3.08
	EN008IU	Listening AE1	2	0	2	3.08
4	PH018IU	Introduction to Space Engineering	2	0	2	3.08
5	PH019IU	General Physics 1	4	0	4	6.16
6	PH020IU	General Physics 1 Laboratory	0	2	2	4
7	MA001IU	Calculus 1	4	0	4	6.16
8	PE015IU	Marxist-Leninist philosophy	3	0	3	4.62
9	PT001IU	Physical training 1	0	0	0	0
Summer semester (Year 1)					11	17.4
10	PH021IU	General Physics 2	3	0	3	4.62
11	PH022IU	General Physics 2 Laboratory	0	1	1	2
12	MA003IU	Calculus 2	4	0	4	6.16
13	EE050IU	Introduction to computer for engineers	3	0	3	4.62
Semester 3					23	36.34
14	EN011IU	Writing AE 2	2	0	2	3.08
	EN012IU	Speaking AE2	2	0	2	3.08
15	PH025IU	Mathematics for Engineers	4	0	4	6.16
16	PH026IU	Differential equations	2	0	2	3.08
17	PH023IU	General Physics 3	2	0	2	3.08
18	PH024IU	General Physics 3 Laboratory	0	1	1	2
19	EE057IU	Programming for engineers	3	0	3	4.62
20	EE058IU	Programming for engineers Laboratory	0	1	1	2
21	PH027IU	Earth observation and the environment	3	0	3	4.62
22	PH030IU	Probability and statistics for engineers	3	0	3	4.62
Semester 4					21	33.26
23	PH029IU	Introduction to Relativity and Modern Physics	3	0	3	4.62
24	PH031IU	Optics and Photonics	2	0	2	3.08
25	PH032IU	Introduction to Signals and Systems	3	0	3	4.62
26	PH033IU	Signals and Systems Laboratory	0	1	1	2
27	PH037IU	Space Environment	3	0	3	4.62
28	PH040IU	Satellite Technology	3	0	3	4.62
29	PH055IU	iOS programming fundamentals	3	1	4	6.62
30	PE016IU	Marxist-Leninist political economy	2	0	2	3.08
31	PT002IU	Physical training 2	0	0	0	0
Summer semester (Year 2)					0	0



32	MP001IU	Military training	0	0	0	0
Semester 5					23	36.8
33	PH035IU	Introduction to Space Communications	3	0	3	4.62
34	PH047IU	Navigation Systems	3	0	3	4.62
35	PH038IU	Introduction to Digital Image Processing	2	0	2	3.08
36	PH039IU	Digital Image Processing Laboratory	0	1	1	2
37	PH057IU	Geolocation App Development for iOS	3	1	4	6.62
38	EE092IU	Digital Signal Processing	3	0	3	4.62
39	EE093IU	Digital Signal Processing Laboratory	0	1	1	2
40	PH056IU	Project Management	3	0	3	4.62
41	PE008IU	Critical thinking	3	0	3	4.62
Semester 6					22	35.26
42	PH041IU	Digital Image Processing	3	0	3	4.62
43	PH043IU	Satellite Signal And Image Processing Laboratory	2	1	3	5.08
44	PH053IU	Big Data Analytics for Remote Sensing	3	0	3	4.62
45	PH054IU	Big Data Analytics for Remote Sensing Laboratory	0	1	1	2
46	EE105IU	Antenna and Microwave Engineering	3	0	3	4.62
47	EE124IU	Antenna and Microwave Engineering Laboratory	0	1	1	2
48	PH036IU	Remote Sensing	3	0	3	4.62
49	PE020IU	Engineering Ethics and Professional Skills	3	0	3	4.62
50	PE017IU	Scientific socialism	2	0	2	3.08
Summer semester					3	4.92
51	PH044IU	Internship	3	0	3	4.92
Semester 7					18	29.04
52	PH042IU	Research Project	4	0	4	6.56
53	PE018IU	History of Vietnamese Communist Party	2	0	2	3.08
Electives (choose 4 out of 5 courses below)					12	19.4
54	PH045IU	Fundamental of Surveying	2	1	3	5.08
55	PH046IU	Geographic Information Systems (GIS) and Spatial Analysis	2	1	3	5.08
56	EE133IU	Emerging Engineering Technologies	3	0	3	4.62
57	PH048IU	Radio Astrophysics	3	0	3	4.62
58	PH049IU	Advanced Remote Sensing	3	0	3	4.62
Semester 8					12	20.4
59	PH050IU	Thesis	10	0	10	16.4
60	PE019IU	Ho Chi Minh's Thought	2	0	2	3.4
Total					182	309.4