



LEVEL AE (TOEFL iBT \geq 61 or IELTS \geq 5.5)						
No.	Course ID	Course	Credit			ECTS
			Theory	Practice	Total	
Semester 1			14	2	16	25.56
1	PH019IU	General Physics 1	4	0	4	6.16
2	PH020IU	General Physics 1 Laboratory	0	2	2	4
3	MA001IU	Calculus 1	4	0	4	6.16
4	PH018IU	Introduction to Space Engineering	2	0	2	3.08
5	EN007IU	Writing AE1	2	0	2	3.08
	EN008IU	Listening AE1	2	0	2	3.08
6	PT001IU	Physical training 1	0	0	0	0
Semester 2			16	1	17	26.64
7	PH021IU	General Physics 2	3	0	3	4.62
8	PH022IU	General Physics 2 Laboratory	0	1	1	2
9	MA003IU	Calculus 2	4	0	4	6.16
10	PE016IU	Marxist-Leninist political economy	2	0	2	3.08
11	EN011IU	Writing AE 2	2	0	2	3.08
	EN012IU	Speaking AE2	2	0	2	3.08
12	PT002IU	Physical training 2	0	0	0	0
13	PE015IU	Marxist-Leninist philosophy	3	0	3	4.62
Summer semester (Year 1)			8	0	8	12.32
14	EE050IU	Introduction to computer for engineers	3	0	3	4.62
15	PE008IU	Critical thinking	3	0	3	4.62
16	PE017IU	Scientific socialism	2	0	2	3.08
Semester 3			19	2	21	33.26
17	PH023IU	General Physics 3	2	0	2	3.08
18	PH024IU	General Physics 3 Laboratory	0	1	1	2
19	PH030IU	Probability and statistics for engineers	3	0	3	4.62
20	PH026IU	Differential equations	2	0	2	3.08
21	EE057IU	Programming for engineers	3	0	3	4.62
22	EE058IU	Programming for engineers Laboratory	0	1	1	2
23	PE018IU	History of Vietnamese Communist Party	2	0	2	3.08
24	PH027IU	Earth observation and the environment	3	0	3	4.62
25	PH025IU	Mathematics for engineers	4	0	4	6.16
Semester 4			19	2	21	33.26
26	PH037IU	Space Environment	3	0	3	4.62
27	PH029IU	Introduction to Relativity and Modern Physics	3	0	3	4.62
28	PH031IU	Optics and Photonics	2	0	2	3.08
29	PH032IU	Introduction to Signals and Systems	3	0	3	4.62
30	PH033IU	Signals and Systems Laboratory	0	1	1	2
31	PH040IU	Satellite Technology	3	0	3	4.62
32	PH055IU	iOS programming fundamentals	3	1	4	6.62
33	PE019IU	Ho Chi Minh's Thought	2	0	2	3.08



Summer semester (Year 2)					0	0
34	MP001IU	Military training	0	0	0	0
Semester 5			17	3	20	32.18
35	PH035IU	Introduction to Space Communications	3	0	3	4.62
36	EE092IU	Digital Signal Processing	3	0	3	4.62
37	EE093IU	Digital Signal Processing Laboratory	0	1	1	2
38	PH047IU	Navigation Systems	3	0	3	4.62
39	PH057IU	Geolocation App Development for iOS	3	1	4	6.62
40	PH038IU	Introduction to Digital Image Processing	2	0	2	3.08
41	PH039IU	Digital Image Processing Laboratory	0	1	1	2
42	PH036IU	Remote Sensing	3	0	3	4.62
Semester 6			16	4	20	32.64
43	EE105IU	Antenna and Microwave Engineering	3	0	3	4.62
44	EE124IU	Antenna and Microwave Engineering Laboratory	0	1	1	2
45	PH043IU	Satellite Signal and Image Processing Laboratory	1	2	3	5.54
46	PH056IU	Project Management	3	0	3	4.62
47	PH053IU	Big Data Analytics for Remote Sensing	3	0	3	4.62
48	PH054IU	Big Data Analytics for Remote Sensing Laboratory	0	1	1	2
49	PH041IU	Digital Image Processing	3	0	3	4.62
50	PE020IU	Engineering Ethics and Professional Skills	3	0	3	4.62
Summer semester			3	0	3	4.92
51	PH044IU	Internship	3	0	3	4.92
Semester 7			14 or 15	2 or 1	16	25.5 or 25.96
52	PH042IU	Research Project	4	0	4	6.56
Electives (choose 4 out of 5 courses below)			10	2	12	19.4
53	PH045IU	Fundamental of Surveying	2	1	3	5.08
54	PH049IU	Advanced Remote Sensing	3	0	3	4.62
55	PH046IU	Geographic Information Systems (GIS) and Spatial Analysis	2	1	3	5.08
56	PH048IU	Radio Astrophysics	3	0	3	4.62
57	EE133IU	Emerging Engineering Technologies	3	0	3	4.62
Semester 8			10	0	10	16.4
58	PH050IU	Thesis	10	0	10	16.4
Total			128 or 129	16 or 15	152	242.68 or 243.14