



<b>LEVEL IE2 (46 ≤ TOEFL iBT ≤ 60 or IELTS = 5.0)</b>						
No.	Course ID	Course	Credit			ECTS
			Theory	Practice	Total	
<b>Semester 1</b>			<b>17</b>	<b>0</b>	<b>17</b>	<b>26.18</b>
1	ENTP02	IE2	13	0	13	20.02
2	PH019IU	General Physics 1	4	0	4	6.16
3	PT001IU	Physical training 1	0	0	0	0
<b>Semester 2</b>			<b>16</b>	<b>3</b>	<b>19</b>	<b>30.64</b>
4	EN007IU	Writing AE1	2	0	2	3.08
	EN008IU	Listening AE1	2	0	2	3.08
5	PH018IU	Introduction to Space Engineering	2	0	2	3.08
6	MA001IU	Calculus 1	4	0	4	6.16
7	PH020IU	General Physics 1 Laboratory	0	2	2	4
8	PH021IU	General Physics 2	3	0	3	4.62
9	PH022IU	General Physics 2 Laboratory	0	1	1	2
10	PE015IU	Marxist-Leninist philosophy	3	0	3	4.62
11	PT002IU	Physical training 2	0	0	0	0
<b>Summer semester (Year 1)</b>			<b>9</b>	<b>0</b>	<b>9</b>	<b>13.86</b>
12	MA003IU	Calculus 2	4	0	4	6.16
13	PE016IU	Marxist-Leninist political economy	2	0	2	3.08
14	EE050IU	Introduction to computer for engineers	3	0	3	4.62
<b>Semester 3</b>			<b>21</b>	<b>2</b>	<b>23</b>	<b>36.34</b>
15	EN011IU	Writing AE 2	2	0	2	3.08
	EN012IU	Speaking AE2	2	0	2	3.08
16	PH025IU	Mathematics for Engineers	4	0	4	6.16
17	PH026IU	Differential equations	2	0	2	3.08
18	PH023IU	General Physics 3	2	0	2	3.08
19	PH024IU	General Physics 3 Laboratory	0	1	1	2
20	EE057IU	Programming for engineers	3	0	3	4.62
21	EE058IU	Programming for engineers Laboratory	0	1	1	2
22	PH027IU	Earth observation and the environment	3	0	3	4.62
23	PH030IU	Probability and statistics for engineers	3	0	3	4.62
<b>Semester 4</b>			<b>19</b>	<b>2</b>	<b>21</b>	<b>33.26</b>
24	PH029IU	Introduction to Relativity and Modern Physics	3	0	3	4.62
25	PH031IU	Optics and Photonics	2	0	2	3.08
26	PH032IU	Introduction to Signals and Systems	3	0	3	4.62
27	PH033IU	Signals and Systems Laboratory	0	1	1	2
28	PH037IU	Space Environment	3	0	3	4.62
29	PH040IU	Satellite Technology	3	0	3	4.62
30	PH055IU	iOS programming fundamentals	3	1	4	6.62
31	PE017IU	Scientific socialism	2	0	2	3.08
<b>Summer semester (Year 2)</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



32	MP001IU	Military training			0	0
<b>Semester 5</b>			<b>19</b>	<b>3</b>	<b>22</b>	<b>35.26</b>
33	PH035IU	Introduction to Space Communications	3	0	3	4.62
34	PH057IU	Geolocation App Development for iOS	3	1	4	6.62
35	PH047IU	Navigation Systems	3	0	3	4.62
36	PH038IU	Introduction to Digital Image Processing	2	0	2	3.08
37	PH039IU	Digital Image Processing Laboratory	0	1	1	2
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	PE018IU	History of Vietnamese Communist Party	2	0	2	3.08
<b>Semester 6</b>			<b>16</b>	<b>4</b>	<b>20</b>	<b>32.64</b>
42	PH053IU	Big Data Analytics for Remote Sensing	3	0	3	4.62
43	PH054IU	Big Data Analytics for Remote Sensing Laboratory	0	1	1	2
44	EE105IU	Antenna and Microwave Engineering	3	0	3	4.62
45	EE124IU	Antenna and Microwave Engineering Laboratory	0	1	1	2
46	PH041IU	Digital Image Processing	3	0	3	4.62
47	PH043IU	Satellite Signal and Image Processing Laboratory	1	2	3	5.54
48	PH036IU	Remote Sensing	3	0	3	4.62
49	PE020IU	Engineering Ethics and Professional Skills	3	0	3	4.62
<b>Summer semester</b>			<b>3</b>	<b>0</b>	<b>3</b>	<b>4.92</b>
50	PH044IU	Internship	3	0	3	4.92
<b>Semester 7</b>			<b>17</b>	<b>2</b>	<b>19</b>	<b>30.58</b>
51	PH042IU	Research Project	4	0	4	6.56
52	PE008IU	Critical thinking	3	0	3	4.62
<b>Electives (choose 4 out of 5 courses below)</b>			<b>10</b>	<b>2</b>	<b>12</b>	<b>19.4</b>
53	PH045IU	Fundamental of Surveying	2	1	3	5.08
54	PH046IU	Geographic Information Systems (GIS) and Spatial Analysis	2	1	3	5.08
55	EE133IU	Emerging Engineering Technologies	3	0	3	4.62
56	PH048IU	Radio Astrophysics	3	0	3	4.62
57	PH049IU	Advanced Remote Sensing	3	0	3	4.62
<b>Semester 8</b>			<b>12</b>	<b>0</b>	<b>12</b>	<b>19.48</b>
58	PH050IU	Thesis	10	0	10	16.4
59	PE019IU	Ho Chi Minh's Thought	2	0	2	3.08
<b>Total</b>					<b>165</b>	<b>263.16</b>