

Training program of Aeronautical Engineering

No.	Module code	Module title	ECTS
I	Core modules		
1	MAT1.001	Calculus 1	4
2	MAT1.002	Linear Algebra	4
3	AE1.003	Classical Optics and Wave Optics	2
4	AE1.009	Wave and Sound	2
5	AE1.020	Mechanics 1	3
6	AE1.022	Electricity & Electromagnetism 1	4
7	AE1.031	Introduction to Aeronautical Engineering 1	3
8	AE1.034	CATIA Basic Training	2
9	MAT1.003	Calculus 2	3
10	ICT1.002	Basic programming	4
11	AE1.023	Electricity & Electromagnetism 2	4
12	AE1.027	Fluid Mechanics	3
13	AE1.028	Probabilities and Statistics	3
14	AE1.029	Mechanics 2	3
15	AE1.030	Thermodynamics	3
16	AE1.032	Introduction to Aeronautical Engineering 2	3

17	AE1.033	Electronics 1	5
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No.	Module code	Module title	ECTS
18	FR2.001	French 2.1	4
19	PHI2.001	Philosophy	0
20	AE2.002	Materials	6
21	AE2.008	Aerodynamics and Flight Mechanics	4
22	AE2.019	Signal and Image Processing	3
23	AE2.020	Electrical Power	2
24	AE2.021	Electronics Systems: Analog Systems & Digital Systems	4
25	AE2.025	Electronics 2	4
26	AE2.026	Aeronautical Project	3
27	FR2.002	French 2.2	4
28	AE2.010	Automatism	3
29	AE2.013	Thermal Systems	4
30	AE2.022	Mechanics of Materials	4
31	AE2.023	Electronics Systems: Instrument Systems, Avionics and Troubleshooting	4
32	AE2.024	Hydraulic/Pneumatic Power	2

33	AE2.014	Second-year Internship	4
34	AE3.003	Gas Turbine Engine	3
35	AE3.038	Safety and Human Factors	2
36	AE3.025	Aviation Regulations	2

No.	Module code	Module title	ECTS
37	AE3.021	Graduation Internship	9
II	Optional module group 1		
1	PHI1.001	Philosophy	3
2.1	Operation Engineering		
2	AE2.027	Cargo Transportation	2
3	AE3.027	Legal Environment of Maintenance Contracts	2
4	AE3.029	Presentation Skills/Professional Orientation	2
5	AE3.030	Airline Management	3
6	AE3.031	Aviation Mass and Performance	3
7	AE3.032	Communication - Radio	3
8	AE3.039	Navigation	3
9	AE3.018	Flight Operations	4
10	AE3.020	Project Management and Quality Assurance	2
11	AE3.034	Air Traffic Management	4

12	AE3.040	Maintenance and Reliability	5
13	AE3.041	Air Traffic Flow Management	3
2.2	Operation Engineering		
14	AE3.008	Aeroplane Aerodynamics, Structures and Systems 1	6
15	AE3.009	Maintenance Practices	9
No.	Module code	Module title	ECTS
16	AE3.037	Materials and Hardware	5
17	AE3.012	Gas Turbine Engine 2	6
18	AE3.013	Propeller	2
19	AE3.036	Aeroplane Aerodynamics, Structures and Systems 2	16
III	Optional module group 2		
IV	Conditional modules (for Vietnamese students only)		
1	QP1.001	National defense and security education	0