

Training program of Electrical Engineering and Renewable Energy

No.	Module code	Module title	ECTS
I	Core modules		
1.1	Core general training modules		
1	CHE1.001	General Chemistry 1	4
2	ICT1.001	Introduction to informatics	3
3	MAT1.001	Calculus 1	4
4	MAT1.002	Linear Algebra	4
5	PHY1.001	Fundamental Physics 1	4
6	ICT1.002	Basic programming	4
7	ICT1.004	Introduction to Algorithm	3
8	MAT1.003	Calculus 2	3
9	PHY1.002	Fundamental Physics 2	4
10	PHY1.004	Practical physics	2
1.2	Core specialized modules		
1	EER2.003	Fluid mechanics	3
2	EER2.004	Thermodynamic 2	3
3	EER2.005	Electrical circuits 1	4
4	EER2.006	Conversion of energy	3

5	EER2.009	Electrical circuits 2	4
6	EER2.010	Electrical energy storage	4
7	SA2.010	Electronics	4
8	EER2.013	Product design 1	3
9	EER2.014	Sensors and Analytical devices	4
10	EER2.016	Signal processing	3
11	EER3.003	Electric transmission and distribution	3
12	EER3.001	Control engineering	3
13	EER3.002	Electrical machines	4
14	ATE3.004	Power electronics and applications	3
15	EER3.009	Smart-grid technology	4
16	EER3.016	Power supply and energy management for buildings	4
17	EER3.030	Innovation	3
18	EER3.024	Integration of renewable energy sources	3
19	EER3.025	Internship	15
1.3	Core supplementary modules		
1	MAT2.001	Numerical methods	3
2	MET2.019	Introduction to probability	3
3	FR2.001	French 2.1	4
4	FR2.002	French 2.2	4

II	Optional module group 1		
1	AMS3.006	Materials for energy	3
2	EER2.018	Applied informatics in electric and energy systems	3
3	EER2.017	Heat and mass transfer	3
4	EER2.019	Short circuit analysis	3
5	MAT1.007	Optimization 1	3
6	EER3.004	Photovoltaic systems	4
7	EER3.006	Product design 2	3
8	EER3.007	Biomass & biofuels	4
9	EER3.010	Hydroelectric power	4
10	EER3.013	Wind power	4
11	EER3.017	Solar thermal energy systems	4
12	EER3.018	Geothermal energy	4
13	EER3.019	Power system protection	3
14	EER3.021	Energy economics and markets	3
15	EER3.022	Energy planning and policy	3
16	EER3.023	Energy efficiency	3
17	PHI1.001	Philosophy	3
III	Optional module group 2		
IV	Conditional modules (for Vietnamese students only)		

1	QP1.001	National defense and security education	0
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