

Curriculum

<u>General Education</u>	ECTS
English language	7
Mathematical Mode of Thinking	5
World History	5
Classic Literature & Arts	5
Nature Sciences I, II	4
Principles of Economics	4
Anthropology	4
Logics	4
Psychology	4
Philosophy	4
Modern Political Ideologies	5
Total	50

<u>General and Practical Education</u>	ECTS
Biology	6
Programming Methodology	6
Programming Abstractions	6
Field Practice	6

Teaching Practice	5
Total	20

<u>Basic Education</u>	ECTS
Mathematical Analysis I	6
Mathematical Analysis II	6
Tensor Analysis	6
Theory of Complex Variable	6
Differential Equations	6
Numerical Methods (MatLAB)	3
Total	33

<u>Primary Education</u>	ECTS
Mathematical Methods of General Physics	6
Physics I: Classical Mechanics	8
Physics II: Thermodynamics, Kinetic Theory of Gases	8
Physics III: Electricity and Magnetism	8
Physics IV: Optics, Special Relativity	8
Total	38

<u>Concentration: Physics</u>	ECTS
Mathematical Methods of Theoretical Physics	6
Condensed Matter Physics	6
Astrophysics & Cosmology	6
High Energy Physics	6
Theoretical Mechanics	6
Quantum Mechanics	6
Field Theory	6
Statistical Physics	6
Computational Modelling of Physics Problems (Wolfram's Mathematica)	6
Plasma Physics	6
Bachelor Work	7
Total	67

<u>Additional Subjects</u>	ECTS
Any subjects from different programs (Free University)	28