

Aerospace Engineering

Peoples' Friendship University of Russia

Degree or qualification is awarded: **Certificate**

Language of study: **English**

Mode of study: **full-time**

Duration: **144 hours**

Availability of free education: **no**

Price: **1200 €**

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During the education participants of the summer school can obtain knowledge of the mathematical methods of optimization and control (including methods of non-linear. Evolutionary, constrained optimization and etc.).

They also will get the opportunity to monitor and analyze the real remote sensing data, for example, to evaluate the deforestation in the area of Amazon river or state of Alps glaciers and check the changes in remote regions of our planet.

In the module "Fundamentals of Space Mechanics" they will know about astronomical coordinates systems, celestial sphere, study Kepler's and Newton's laws, calculate trajectory of satellite and much more.

And also a lot of guided tours are presented!

Space Museum.

Here participants will learn interesting facts about Russian and international space exploration. They can see real spacecrafts and models of space station. You can try real space food in the museums café!

Mission Control Centre. During this tour you can visit closed state center and see, how the specialists control space flights, how astronauts live on the international space station, what tests and experiments they do there and etc.

Training Centre for astronauts.

Every astronaut from all over the world should be trained at this center in Star city. After careful and meticulous checks the trainees will be study during next 2 years. They will pass not only physical training but also will learn a lot of theoretical subjects and should solve practical tasks.

Sightseeing tours around the city center, parks Kolomenskoye and Tsaritsyno

Specializations within this programme