

International Polytechnic Winter School "Plasma Physics and Controlled Fusion"

圣彼得堡国立技术大学

学习语言: 英语

学习方式:

长度: 2 周

免费学习的可能性: 没有

费用: **540 Euro**

学院网站的方案页面:

<https://english.spbstu.ru/education/programs/short-term-programs/winter-school/plasma-physics-controlled-fusion/>

方案保管人: **Department of International Educational Programs**

电话:

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The course is suitable as the first plasma physics course or an add-on course for senior undergraduate students and graduate students.

The primary objective of the course is to present the fundamentals of plasma physics particularly highlighting high-temperature plasma physics and its applications to controlled fusion. The course begins with an overview of plasma phenomena and their applications. The lectures cover Coulomb collisions, single particle motion in magnetic field, magnetic traps, principles of controlled fusion, plasma heating and diagnostics. The program also includes study visits to a tokamak laboratory and a laboratory for plasma technologies.

Program dates:

Arrival: Jan 25 – 26, 2020

Classes: Jan 27 –Feb 07, 2020

Departure: Feb 08 – 09, 2020

The cultural program includes:

- Excursion to the Hermitage, one of the world's largest and oldest museums of fine art;
- Pub Quiz;
- Excursion to the Kunstkamera museum, a cabinet of curiosity;
- Field trip to the "Baltika" Brewery/"Coca-Cola" factory where students can learn about the construction and logistic peculiarities of the plant;
- Full-day Wintry Event with sleigh riding and skating (optional for extra price).

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