



POLYTECH

Peter the Great
St. Petersburg Polytechnic
University

NATURAL SCIENCES

DOUBLE DEGREE

PHOTONICS AND NANOELECTRONICS

PROGRAM NAME: Photonics and Nanoelectronics

AWARD: SPbPU – MSc in Electronics and Nanoelectronics, LUT – MSc in Technology (Computational Engineering and Technical Physics)

MODE OF STUDY: full-time

COURSE DURATION: 2 years: 1st and 2nd semesters at SPbPU + 3rd semester at LUT (optional) + 4th semester at home university. Double Degree option is performed in cooperation with Lappeenranta University of Technology.

PROGRAM OUTLINE: The program is designed to provide students with comprehensive knowledge of the state-of-the-art experimental techniques and theoretical methods in this area of expertise. The program encompasses a broad spectrum of research activity ranging from exploring the fundamental nature of electronic materials to developing new photonic and nanoelectronic devices and systems.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Humanities	6
Nanotechnology	8
Material Science	7
Semiconductor Physics	12
Optics and Photonics	13
Electronic Devices	8
Internship	9
Master's Thesis and Research Work	57
Total	120



ENTRY REQUIREMENTS: Bachelor's, Bachelor's, Specialist's or Master's degree in a relevant area is required / English language proficiency - B+ (CEFR B2) / Exam Test in a relevant field of studies / Interview in English with a program coordinator (Skype option is available)

PARTNERS:

- Finland – Lappeenranta University of Technology
- Finland – Aalto University, Helsinki
- Finland – University of Eastern Finland, Joensuu

CAREER OPPORTUNITIES: Our graduates can expect to have their positions in international companies and go on to successful careers in academia, industry and government laboratories. They may be engaged in a variety of research centers and work on cutting-edge projects.

