



POLYTECH

Peter the Great
St. Petersburg Polytechnic
University

NATURAL SCIENCES

SMART NANOSTRUCTURES
AND CONDENSED MATTER PHYSICS

PROGRAM NAME: Smart Nanostructures and Condensed Matter Physics

AWARD: Master of Science

MODE OF STUDY: Full time

COURSE DURATION: 2 years

PROGRAM OUTLINE: The program is tailored to BSc graduates who wish to deepen their knowledge of physics and who are looking to pursue a research career within a university, industrial or research laboratory. Along with lecture courses, the program pays great attention to the work of students in research groups working in promising areas of modern physics: nanostructures and nanostructured materials, condensed matter physics, physics of advanced materials possessing unique properties.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Humanities	10
Condensed Matter Physics	15
Nanoscience	20
Material Science	15
Research and Master thesis	60
Total	120

ENTRY REQUIREMENTS:

- Bachelor in Physics, Engineering Physics, Applied Physics, Materials Science or similar.
- English language proficiency B+ level.
- Examination in the field of Physics.
- Interview with the program coordinator.

PARTNERS:

- France – ESPCI Paris (Paris Industrial Physics and Chemistry Higher Educational Institution)
- Finland – LUT (Lappeenranta University of Technology)

CAREER OPPORTUNITIES: Upon graduating from the Master program, students will have the skills necessary for a successful career as a research physicist, whether in industry, academia or elsewhere. Our graduates have the potential to work in a variety of fields, from the development and application of new functional nanostructures and materials to high-technology start-ups.

