



POLYTECH

Peter the Great
St. Petersburg Polytechnic
University

ENGINEERING

DOUBLE DEGREE

MATERIALS AND STRUCTURES FOR EXTREME
AND SPECIAL CONDITIONS



PROGRAM NAME: Materials and Structures for Extreme and Special Conditions

AWARD: SPbPU diploma – Master of Science in Technology (MSc), LUT diploma – Master of Science (MSc)

MODE OF STUDY: full-time

COURSE DURATION: 2 years: 2 semesters at SPbPU + 2 semesters at a partner university (optional)
Double Degree option is performed in cooperation with Lappeenranta University of Technology

PROGRAM OUTLINE: The key objective of the program is to train students to become experts with extensive scientific and practical knowledge how to deal with materials and structures under extreme conditions using advanced technologies. Our students will get pertinent knowledge of additive manufacturing and materials processing, design methodologies and FE-analysis as well.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Advanced Production Technologies	25
Techniques for Structural Analysis and Design	25
Modeling and Simulation of Production Technologies	20.5
Internships	25.5
Master's Thesis and Scientific Research Work	24
Total	120



ENTRY REQUIREMENTS: 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

CAREER OPPORTUNITIES: With the knowledge and practical skills acquired by completion of the course our graduates will be able to work for large international companies in R&D departments leading to top positions in sustainable companies, or continue studies for a PhD.

