



POLYTECH

Peter the Great
St. Petersburg Polytechnic
University

ENGINEERING



CIVIL ENGINEERING



PROGRAM NAME: Civil Engineering

AWARD: Master of Science in Civil Engineering

MODE OF STUDY: Full-time (state-funded + contract)

COURSE DURATION: 2 years: 3 semesters at SPbPU + 1 semester at a partner university (optional)

PROGRAM OUTLINE: The program offers a range of advanced level modules that address key issues faced by civil engineers nowadays. This course is designed to prepare you for a career in the industry by providing you with practical experience of research and management as well as to get pertinent knowledge of structural, geotechnical and hydraulic engineering and design. Keeping pace with the trend of having big demand for highly-qualified civil engineers on international market we worked out an up-to-date and helpful educational Master's degree program.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
History and Methodology of Science	3
Scientific Discourse	3
English for Professional Activity	4
Special Sections of the Research	4
Math Modeling	3
Building Information Modeling (BIM)	2
Cross-Cultural Communications and Self-Management	2
Information Technologies for Development of Territories	2
Real Estate Economics	2
Project Management for Construction	2
Construction Technologies	2
Building Structures	2
Energy Efficient Engineering Systems	2
GIS Technologies for Construction	2
Elective Disciplines	5
Introductory Practice	6
International Communication in Construction Business	3
Business-Planning in Construction	3
Reliability of Structures	3
Special Course on Building Materials	2
Elective Disciplines	9
Scientific and Research Work of Master	21
Technological Practice	6
Pre-Diploma Practice	9
Scientific and Research Practice	12
Preparation and Defense of Master Thesis	6
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:

- Italy – Politecnico di Milano
- Austria – Graz University of Technology
- Portugal – University of Minho, Guimarães
- Slovenia – University of Ljubljana, Ljubljana

CAREER OPPORTUNITIES: With the knowledge and practical skills acquired by completion of this course, many graduates may continue to study for a PhD, become research assistants or work for international companies or set up their own business.

ADDITIONAL EDUCATIONAL OPPORTUNITIES:

- BIM A+ European master course
A unique multicenter leading Erasmus Mundus Master in Building Information Modeling
- Visit to the largest construction sites in St. Petersburg and consultation with industry experts

