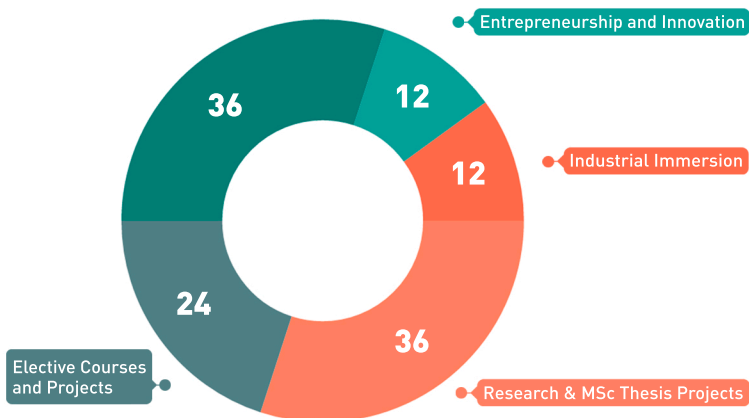


Master of Science in Applied Mathematics and Physics

Full-time 2 year program | 120 ECTS

Compulsory & Recommended Courses



Skoltech CPQM

The Skoltech center of Photonics & Quantum Materials (CPQM) seeks to lead world-wide research in novel quantum materials and photonics, that promises to transform signal processing, computations, and enhance the performance of electronic devices. CPQM is putting significant emphasis on key national initiative directions and industrial applications.

 crei.skoltech.ru/cpqm

Industrial Partners



Program Director

Ildar Gabitov

Professor, CPQM Director, University of Arizona

 i.gabitov@skoltech.ru

 faculty.skoltech.ru/people/ildargabitov

Nº	Compulsory Courses
1	Physical background of Photonics
2	Solid State Physics
3	Lazer Physics
4	Advanced Photonics Technologies
5	Introduction to Physics of Optoelectronics Devices
6	Nanooptics




Nº	Recommended Electives
1	Non-linear Optics
2	Quantum Optics
3	Fiber Optics
4	Spectroscopy of Quantum Materials
5	Hybrid Photonics
6	Physical background of Optical Communications
7	Biomedical Application of Photonics
8	Computer Modelling in Electrodynamics
9	Carbon nanomaterials



Nº	Entrepreneurship and Innovation
1	Innovation Workshop
2	Ideas to Impact: Foundations for Commercializing Technological Advances
3	Intellectual Property and Technological Innovation



Elective Courses	
See at the Skoltech Course Catalogue:	
	skoltech.ru/en/education/course-catalogue