

Applied Physics (with the Kurchatov Institute Research Center and the IACS FEB RAS)

Far Eastern Federal University

Degree or qualification is awarded: **Master**

Language of study: **Russian, English**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **yes**

Price: **290 000 rubles per year**

Programme webpage at the university website:

https://www.dvfu.ru/upload/medialibrary/dcc/2trfnr8py301s3excqncvetyepb6l3x/%D0%9F%D0%B0%D1%81%D0%BF%D0%BE%D1%80%D1%82%20%D0%9E%D0%9F%2003.04.02_%D0%9F%D1%80%D0%B8%D0%BA%D0%BB%D0%B0%D0%B4%D0%BD%D0%B0%D1%8F%20%D1%84%D0%B8%D0%B7%D0%B8%D0%BA%D0%B0_2022.pdf

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The program trains specialists capable of carrying out interdisciplinary research and development in the field of physics, chemistry, materials science using nanotechnology and technologies for creating nanomaterials. Training takes place through research activities. Undergraduates participate in interdisciplinary projects with leading teams of FEFU scientists and institutes of the Russian Academy of Sciences, train at foreign universities and national laboratories, academic institutes of the Far Eastern Branch of the Russian Academy of Sciences. Leading professors in the field of applied physics, nanoelectronics and physics of magnetic materials from universities of the Asia-Pacific countries are involved in teaching: Auckland University (USA), Korea University (Korea), Tohoku University (Japan), National Tsinghua University (Taiwan), University of Hong Kong (Hong Kong), University of Western Australia and University of New South Wales (Australia), CAS Institute of Physics (China).

Key disciplines of the program:

Photoelectron spectroscopy methods; Electron microscopy methods for Nanotechnology; Scanning probe microscopy methods; Magnetic Materials Research Methods; Introduction to Quantum Materials; Nanomaterials Design; Elements of Fractal Theory in Magnetism; Quantum Theory of Magnetism; Spintronics and Nanomagnetism; Phase transitions and Critical phenomena.

Partners involved in the implementation of the program:

SIC Kurchatov Institute, IAPU FEB RAS, THEIR FEB RAS, USA, University of Auckland (USA), Korea University (Korea), Tohoku University (Japan), National Tsinghua University (Taiwan), University of Hong Kong (Hong Kong), University of Western Australia and University of New South Wales (Australia), Institute of Physics CAS (China).

Specializations within this programme