FEFU
FAR EASTERN FEDERAL UNIVERSITY

Master's Degree Program in English

Offshore and Coastal Engineering

CURRICULUM

1 SEMESTER

- Philosophic Problems of Science and Engineering, 2 CP
- Mathematical Modelling, 3 CP
- Special Sections of Higher Mathematics, 3 CP
- Offshore and Coastal Engineering, 5 CP
- Mechanics of Materials, 4 CP
- Business Foreign Language, 1 CP
- Applied Geotechnics, 2 CP
- Scientific Research Work, 7 CP

2 SEMESTER

- Methodology of Scientific Research, 2 CP
- Design and Analysis of Experiments, 4 CP
- Structural Dynamics, 2 CP
- IT in Construction, 3 CP
- Business Foreign Language, 1 CP
- Offshore & Port Facilities, 2 CP
- Reinforced Concrete Structures, 3 CP
- Industrial Practice, 3 CP
- Research Industrial Practice, 6 CP
- Pedagogical Practice, 3 CP
- Scientific Research Work, 4 CP

3 SEMESTER

- Basics of Pedagogics and Adult Teaching, 2 CP
- Methods of Scientific and Technical Problems' Solving in Construction, 3 CP
- Offshore & Port Facilities, 3 CP
- Innovation Management and Risk Management in Construction, 3 CP
- Concrete Technology - Advanced Design, 6 CP
- Foundation Engineering, 6 CP
- Research Practice, 3 CP
- Scientific Research Work, 4 CP

4 SEMESTER

- Preparation and Defense of a Thesis, 3 CP
- Scientific Research Work, 27 CP

ABOUT PROGRAM

GENERAL INFORMATION

The two-year Master of Science program in Offshore and Coastal Engineering was designed to meet the growing demand for skilled professionals in the offshore and coastal construction industry. The program consists of general principles and methods that give students the tools to meet and solve challenges on an advanced engineering level, not only inside their area of specialization. Projects and problems in the program are often taken from the offshore industry, and students gain valuable experience due to the School's close contacts with the industry.

PROGRAM GOALS

- to give students a high level of understanding and advanced analytical skills in key areas of offshore and coastal engineering including: exploration of ocean resources, development of infrastructure of offshore oil and gas industry and marine transport;
- to satisfy students' personal needs in qualified professional education on the basis of common cultural and professional competences including Federal State Educational Standards and requirements of job offers.

PROGRAM ADVANTAGES

1. This cross-disciplinary program prepares students to work in port and harbor facilities, offshore and coastal engineering industry. The program also introduces students with risk and innovation management, work in arctic areas, characteristics of concrete structures, etc.
2. Career opportunities lie broadly across the whole spectrum of the offshore and coastal fields all over the world. Future employers may include industry, governmental organizations, academic institutions and research institutes.

COMPETENCIES

The program prepares students to be competent in resource and land use planning, environmental impact assessment, consulting work, teaching, and research, and encourages students to be active members of the global offshore and coastal engineering community. Students gain knowledge of diverse and valuable resources of the coast and the sea, understand current conditions, and gain tools and expertise to drive the sustainable use of marine resources.

IMPORTANT INFORMATION

Admission requirements: applicants must have bachelor's (specialist's) degree in the same or related major; preference will be given to bachelors (specialists) in civil and marine engineering.

Program start date: September 1

Duration: 2 years

Credit points: 120

Qualification: Master

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CONTACT DETAILS

Office of International Admissions
Room B649, Bldg. B20, 10 Ajax St., Russky Island, Vladivostok, Russia
E-mail: interadmission@dvfu.ru
Tel.: +7 (423) 265-24-24 (ext.2206)

Office of International Educational Programs
Room B651, Bldg. B20, 10 Ajax St., Russky Island, Vladivostok, Russia
E-mail: interprograms@dvfu.ru
Tel.: +7 (423) 265-24-24 (ext.2209)

INFORMATION ABOUT THE PROGRAM

Master's Degree Program in English

Offshore and Coastal Engineering

FIELD OF STUDY: CONSTRUCTION

ABOUT THE UNIVERSITY

Far Eastern Federal University (FEFU) is a unique intellectual community. Based at a campus with world-class infrastructure, our faculty provide innovative educational and research opportunities. FEFU is a gathering place for scientific communication between Russian and international experts, and is an active participant in both socio-economic and cultural development of the Russian Far East. The University's location and personnel offer unique opportunities for collaboration with leading research, education and innovative centers across the Asia- Pacific region, where FEFU has established itself as a global leader in science and innovation.

FEFU is comprised of nine schools, providing a choice of over 150 educational programs in promising areas of technological development, overseen by faculty and staff capable of implementing large-scale projects important to the region's economy.