

Ship Power Plants and Their Elements (Main and Auxiliary)

Far Eastern Federal University

Degree or qualification is awarded: **Candidate of Sciences**

Language of study: **Russian**

Mode of study: **full-time, part-time**

Duration: **4 years**

Availability of free education: **yes**

Price: **425 000 rub a year (full-time) / 210 000 rub a year (part-time)**

Programme webpage at the university website:

<https://www.dvfu.ru/upload/medialibrary/a06/%D0%9F%D0%B5%D1%80%D0%B5%D1%87%D0%B5%D0%BD%D1%8C%20%D0%BF%D1%80%D0%BE%D0%B3%D1%80%D0%B0%D0%BC%D0%BC%20%D0%B0%D1%81%D0%BF%D0%B8%D1%80%D0%B0%D0%BD%D1%82%D1%83%D1%80%D1%8B,%20%D0%BE%D0%B1%D1%8A%D1%8F%D0%B2%D0%BB%D0%B5%D0%BD%D0%BD%D1%8B%D1%85%20%D0%B2%20%D0%BD%D0%B0%D0%B1%D0%BE%D1%80%202020%20%D0%B3%D0%BE%D0%B4%D0%B0.pdf>

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Opportunities for work and career development after graduate school: shipbuilding and ship repair enterprises, shipping companies, organizations engaged in the development of hydrocarbon deposits on the continental shelf (marine oil production enterprises), design and research organizations related to the study of the World ocean and technical means for the development of its resources, qualification societies (Russian Maritime register of shipping, etc.).

Brief description of the content of the educational program:

The subject of research in the specialty is the ship's main and auxiliary installations and their components, as well as energy complexes, systems and devices that ensure the functioning of the ship, excluding electric power complexes. Research in the specialty is conducted in the following areas:

1. Working processes in the sea, main and auxiliary elements of the sea, as well as in the power complexes and systems of the ship.
2. Reception, storage, and preparation of energy carriers and working media used in SEU.
3. Strength, vibration activity, vibration resistance. Impact resistance, wear and corrosion of SEU elements.
4. design, acquisition, and layout of SEM and their elements.
5. Reliability, economy, functional, ergonomic and technological characteristics, diagnostics and maintenance of SEM and their elements. Ensuring the safety of SEM operation and environmental protection.
6. Design automation of SEU.
7. The impact of SEU on the environment.

Opportunities for work and career development in marine infrastructure companies: shipbuilding and ship repair enterprises, shipping companies, organizations engaged in the development of hydrocarbon deposits on the continental shelf (marine oil production enterprises), design and research organizations related to the study of the World ocean and technical means for the development of its resources, qualification societies (Russian Maritime register of shipping, etc.).

After finishing the courses, graduates can get a job on the enterprises of the basic partners ("Scientific-research design-technological Bureau "Onega" DV branch, JSC "Far Eastern plant "Zvezda", LLC "Shipbuilding complex

"Zvezda", JSC "Center of ship Repair "Dalzavod", JSC "Vostochnaya Verf", Institute of chemistry, far East branch of RAS), as well as shipbuilding and ship-repair enterprises of the Republic of Korea, Japan and China.

Head of the educational program - Alexander MINAEV, doctor of technical Sciences, Professor, Honored scientist of the Russian Federation, Honorary worker of higher professional education of the Russian Federation.

Specializations within this programme