SLOVENSKO
OGRODJE
KVALIFIKACIJ

Diplomirani inženir ladijskega strojništva (vs)/diplomirana inženirka ladijskega strojništva (vs)

Selected qualifications

Name of qualification	Diplomirani inženir ladijskega strojništva (vs)/diplomirana inženirka ladijskega strojništva (vs)
Translated title (no legal status)	Bachelor of Applied Science in marine engineering
Type of qualification	Diploma prve stopnje (VS)
Category of qualification	Izobrazba
Type of education	Professional bachelor's education
Duration	3 years
Credits	180 credits

Admission requirements

• School-leaving examination in any four-year secondary school programme, vocational matura or general matura.

ISCED field

Field
Tehnika, proizvodne tehnologije in gradbeništvo

ISCED subfield

subfield motorna vozila, ladje in letala

Qualification level

SQF 7
EQF 6
First level

Learning outcomes

The qualification holder will be able to:

(general competences)

- take responsibility for the direct performance of the duties of an engineering officer aboard a ship or chief engineer in an engine room with an engine power greater than 3000 kW,
- demonstrate understanding of standards of watchkeeping in a manned engine room or an engine room that is occasionally unmanned, as prescribed by the STCW code and international convention,
- understand and use maritime language (international maritime English) and demonstrate argumentative and negotiating skills that give a special comparative advantage,
- demonstrate professional competence for tasks allocated for the handling of equipment which is urgently necessary for the safe exploitation and maintenance of a ship's propulsion and energy systems, for emergency conditions or prevention of marine pollution,
- demonstrate understanding of cultural plurality, plan and implement strategies in mechanical engineering services in companies and organisations,
- regulate relations between the ship's top management and engine room personnel,
- ascertain and analyse employees' view and employee satisfaction,
- take responsibility for implementation of the policies and programmes of a shipping company and for engine room health and safety,
- offer assistance in resolving organisational problems on a ship and conflicts between engine room crew,
- accept broad interdisciplinary specialised knowledge from the fields of mastery of subsystems of ship propulsion, natural sciences, management, ICT, law, environmental protection and other fields,
- directly accept duties in practice and through mastery of additional theoretical and methodological contents, continue direct studies in the second cycle,
- autonomously apply theoretical knowledge to resolve practical problems in practice,
- carry out expert analysis and synthesis of solutions and consequences in nautical and maritime processes,
- stay up to date with new knowledge in the lifelong learning process,
- demonstrate understanding of the interdependence of maritime technology and the technical characteristics of means of transport and maritime infrastructure,
- adopt and address environmental and protective measures in the working environment,
- work as part of a team,

- demonstrate communication skills and develop professional ethics in the extremely complex activity of transport and traffic services,

(subject-specific competences)

- successfully perform the tasks encountered by a ship's engineer in their work,
- demonstrate proficiency in working with large energy plants both on various types of ship and on land,
- acquire knowledge for the preparation, management and maintenance of a ship's propulsion, including knowledge from the following fields: optimal operation of energy plants, economics of maritime enterprises, ordering and storing spare parts, strategic servicing of components, keeping ship's engine documentation,
- acquire knowledge for the preparation of auxiliary energy systems, including: generation and distribution of electricity, compression of air to power tools and machinery and for use in automation and regulation, generation and economic use of steam, storage, processing and preparation of fuels and lubricants, cooling energy systems using various heat exchangers,
- processing of water containing faecal matter or contaminated by oil, generation, treatment and distribution in drinking water, hydraulic systems,
- acquire knowledge for handling and maintenance of mooring, cargo and other deck equipment: anchor and mooring winches, cargo derricks and related equipment, cargo elevators, pipework, pumps in the cargo handling system, systems for opening, closing and sealing cargo holds, ventilation, cooling/heating and air conditioning systems in cargo areas and living quarters, use of inert gases,
- acquire knowledge relating to shipboard safety: fire risk and fire control, survival at sea, search and rescue at sea, ballast operations, pressure on the hull and stability in the case of beaching or running aground, prevention of pollution from ships and action to take in such cases.

Assessment and completion

Students' knowledge is assessed by means of practical exercises and seminar papers, and also via products, projects, performances, services, etc. and by examinations. Examination performance is scored as follows: 10 (excellent); 9 (very good: above-average knowledge but with some mistakes); 8 (very good: solid results); 7 (good); 6 (adequate: knowledge satisfies minimum criteria); 5–1 (inadequate). In order to pass an examination, a candidate must achieve a grade between adequate (6) and excellent (10).

Progression

In order to progress to the next year, full-time and part-time students must have completed the course units prescribed by the study programme (lectures, practical classes, written tests, seminars, etc.) and gained the prescribed number of credits from the study programme by passing examinations (50 credits to enrol in the second year and 60 first-year credits and at least 50 second-year credits to enrol in the third year).

Transitions

Second-cycle master's study programmes (SQF level 8)

Condition for obtaining certificate

In order to complete the programme, students must complete all course units in all subjects in which they have enrolled, complete a relevant work placement and write and defend a bachelor's thesis.

Awarding body

Faculty of Maritime Studies and Transport, University of Ljubljana

URL

http://www.fpp.uni-lj.si/eng/