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| Degree profile of Bachelor í maskinfrøði <i>Bachelor of Science in Marine Engineering</i> | |
| Type of degree & Length | Single degree (210 ECTS) |
| Institutions | Fróðskaparsetur Føroya, Náttúruvísindadeildin, í samstarvi við Vinnuháskúlan <i>University of the Faroe Islands, Faculty of Science and Technology. In co-operation with Centre of Maritime Studies and Engineering.</i> |
| Accreditation organisation | The Ministry of Education, Research and Culture (MMR), The Faroe Islands. |
| Period of reference | Degree programme starting September 2019 |
| Cycle /Level | Bachelor level QF for EHEA: 1st cycle EQF level 6 |

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| A | PURPOSE | |
| | To provide students with a general knowledge in natural sciences with focus on Marine Engineering, thus preparing the students for employment and for further studies at master level. | |
| B | CHARACTERISTICS | |
| 1 | DISCIPLINE(S) / SUBJECT AREA(S) | Marine Engineering, General Engineering and Natural Sciences, and Elective Subjects. (65, 25,10) |
| 2 | GENERAL / SPECIALIST FOCUS | General programme in physical and mathematical sciences with focus on Marine Engineering, Mechanical Engineering and Electrical Engineering. |
| 3 | ORIENTATION | An academic degree based on previous as well as current research, with specialisation in marine engineering science, giving wide opportunities for employability and further studies. |
| 4 | DISTINCTIVE FEATURES | <ul style="list-style-type: none"> - Elective courses make up at least 15 ECTS, giving the opportunity for individual specialisation. - The programme takes examples from the Faroese community whenever possible. - The programme is thought in Faroese, Danish (Nordic) and English |
| C | EMPLOYABILITY & FURTHER EDUCATION | |
| 1 | EMPLOYABILITY | Positions that require bachelor level expertise with solid skills in physical and mathematical sciences and marine engineering. |
| 2 | FURTHER STUDIES | Master programmes in engineering with a broad engineering intake. Master programmes in science with broad intake. Master programmes specialising in Marine Engineering. |
| D | EDUCATION STYLE | |
| 1 | LEARNING & TEACHING | Student centred, teacher centred, problem-based learning, task based |

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| | APPROACHES | learning, research based learning, learning through laboratory exercise, group work and individual study. |
| 2 | ASSESSMENT METHODS | Written examinations, oral examinations, case studies, essays, presentations, reports, continuing assessments, project work and self- or peer reflection. |
| E | | |
| PROGRAMME COMPETENCES | | |
| 1 | GENERIC | |
| | | <ul style="list-style-type: none"> • Research ability: Ability to gain new knowledge through independent and collaborative research. • Teamwork: Ability to work as part of a team and to assume responsibility for tasks. • Management ability: Ability to plan and manage projects taking into account resource constraints. • Problem solving: Ability to handle stress and effectively solving practical and theoretical problems. • Creativity: Ability to be creative in developing ideas and in formulating and solving problems. • Communication skills: Ability to communicate efficiently and to present complex information in a concise manner. • Abstract and analytical thinking: Ability to apply abstract and analytical thinking, and in this way reach conclusions based on facts and logic. • Entrepreneurial and innovative skills: Ability to assess the commercial potential of an idea and to some degree develop a commercial product from an idea. |
| 2 | SUBJECT SPECIFIC | |
| | | <ul style="list-style-type: none"> • Research skills: Ability to demonstrate knowledge of, and ability to use, research techniques and technology. • Mathematical skills: Ability to use mathematics to describe and solve problems in engineering and physics. • General Engineering skills: Ability to understand engineering problems; to design solutions for the problems; to implement the solutions as part of engineering systems; and to operate systems, thus solving the engineering problems. • Skills in Marine engineering systems and analysis: Ability to analyse mechanical and electrical systems, to suggest and implement solutions to increase environmental, technical and social sustainability. • Computational skills: Ability to use appropriate software such as programming languages and packages in mathematical and engineering investigations and to gather and interpret relevant data. |
| F | | |
| COMPLETE LIST OF PROGRAMME LEARNING OUTCOMES | | |
| | | <p>On the completion of the study programme <i>Bachelor of Science in Marine Engineering</i> the student will be able to</p> <ol style="list-style-type: none"> 1. Combine research based knowledge and practical knowhow to solve technical problems. 2. Apply basic standard methods from mathematics, physics and chemistry to evaluate and solve problems in energy-supply and demand. 3. Apply and demonstrate basic knowledge of programming. 4. Demonstrate knowledge of scientific methods in energy analyses and to identify solutions for energy supply problems. |

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| | <ol style="list-style-type: none">5. Demonstrate knowledge of relevant information sources and be able to carry out critical literature review.6. Communicate technical information, theory and results to a wide audience with the aid of graphic, written and oral communication.7. Acquire new knowledge and critically appraise acquired knowledge.8. Apply acquired skills to contribute to problem solving through project work, both independently and as a team member.9. Apply and demonstrate knowledge in solving problems within Mechanical Engineering.10. Apply and demonstrate knowledge in solving problems within Electrical Engineering. |
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