Programme of study – NAUTICAL SCIENCES

Information about the qualification and learning outcomes of the programme of study

A.GENERAL

- application of methods for collecting, processing and preliminary analysis of the experimental data;

- application of methods for simulating/modelling on computer problems related to naval hydrodynamics and hull structure calculation;

- development of fundamental and practical research abilities in the field of marine engineering and navigation;

- development of the ability to work efficiently in complex and multicultural teams;

- utilization of maritime law and commerce concepts in order to ensure a highly efficient management and operation on board ship.

B.SPECIALTY

- utilization of methods for passage planning and navigation for all operational conditions

- application of advanced concepts related to the running of naval equipment, including the determination of compass errors and admitted tolerance

- utilization of highly advanced methods related to transport and safe operation of dangerous, harmful or poisonous cargoes;

- execution and coordination of search and rescue operations at sea

- utilization of methods for maintaining the safety of navigation by using the radar, the ARPA system and the modern systems of navigation which help

decision-making on board ship;;

- development of the ability to understand and interpret a synoptic map and to forecast the weather in an area by means of advanced meteorological and

oceanographic knowledge including tropical cyclones, gales, oceanic currents, tides;

- development of the ability to develop and utilize advanced software for simulation/modelling in shipping industry.