

**Bachelor's Degree in**

**Nautical, Aeronautical and Meteorological-Oceanographic Sciences 2025-2026**

**COURSE OUTLINE**

**CORE CURRICULUM**

MATHEMATICAL ANALYSIS I

BASIC COMPUTER SCIENCE AND LABORATORY

ENGLISH

GEODESY AND NAVIGATION

PHYSICS I

METEOROLOGY

MATHEMATICAL ANALYSIS II

PHYSICS II

NUMERICAL CALCULATION AND APPLIED MATHEMATICS

FLUID DYNAMICS

NAVIGATION LAW

INTERNSHIP AND WORK EXPERIENCE

ADDITIONAL KNOWLEDGE

FINAL EXAM

**NAVIGATION AND SURVEYING Curriculum**

SIGNAL THEORY

SHIPBUILDING AND EQUIPMENT TECHNOLOGY

SHIP ARCHITECTURE AND STATICS

OBSERVATION PROCESSING

DIGITAL CARTOGRAPHY AND GIS WITH LABORATORY

RADIO ELECTRONIC NAVIGATION

MANOEUVRABILITY AND SEA KEEPING

ASTRONOMICAL NAVIGATION

MARINE GEOLOGY AND PHYSIOGRAPHY

PHOTOGRAMMETRY

ORGANISATION OF MARITIME NAVIGATION SERVICES

TERRESTRIAL AND NAVAL MAGNETISM

ENVIRONMENTAL CHEMISTRY

### **FLIGHT MANAGEMENT AND SAFETY Curriculum**

SIGNAL THEORY

FLIGHT MECHANICS

OBSERVATION PROCESSING

DIGITAL CARTOGRAPHY AND GIS

AIR NAVIGATION SERVICES ORGANISATION

RADAR

AIR NAVIGATION AND AERONAUTICAL CARTOGRAPHY

AVIONICS

AIR TRAFFIC CONTROL SYSTEMS

AERONAUTICAL REGULATIONS AND HUMAN FACTORS

ENVIRONMENTAL CHEMISTRY

SAFETY IN AERONAUTICAL OPERATIONS

### **METEOROLOGY AND OCEANOGRAPHY Curriculum**

SIGNAL THEORY

ENVIRONMENTAL CHEMISTRY

MARINE GEOLOGY

ANALYSIS OF COASTAL FORMS AND PROCESSES

NUMERICAL CARTOGRAPHY AND GIS WITH LABORATORY

OCEANOGRAPHY

METEO-OCEANOGRAPHIC MEASUREMENTS AND DATA ANALYSIS

MARINE GEOPHYSICS

REMOTE SENSING OF THE OCEAN

POLAR OCEANOGRAPHY