

USE OF ELECTRONIC CARDS AND AIS (43)

Annotation: In the course "Use of Electronic Charts and AIS", the essence of Electronic Navigation Charts (ENCs), ECIS and all related standards is studied. Basic definitions and terminology associated with electronic navigation cartography; All navigational marks in electronic charts; The methodology for developing ENCs; Compilation of ENCs upon their introduction in ECIS, Working with ECIS; Mistakes made in the development of electronic charts that impede their correct behavior when they are introduced to ECIS; The mistakes of the cartographer that can mislead any captain. In the course "Use of Electronic Charts and AIS" students should acquire the necessary theoretical knowledge and practical skills to work with ECIS in order to be able to carry out safe navigation.

Students should be familiar with the types of electronic charts and standards, the contingency marks and the system data, the basic navigation functions and settings, passage planning and monitoring, the ways and procedures for updating ENCs and the limitations and dangers of overreliance on working with ECIS.

Students should be able to make system settings, to plan and monitor the passage, to analyze and respond adequately to ECIS alerts and sensor signals, to assess adequately the accuracy of the sensors for safe system use and evaluate the errors due to inaccurate data.

Main issues of the syllabus content :

- Marine navigation charts, paper navigation charts, vector and raster electronic navigation charts (ENC and RNC), Electronic Charts Information System (ECIS) and Standards for their development;
- Elements of ECDIS;
- Navigation Watch using ECDIS;
- ECDIS route, planning and observation;
- Objects in ECDIS, Marine Charts and Systems. ECDIS responsibilities and assesment.