"MIRCEA CEL BATRAN" NAVAL ACADEMY NAVIGATION AND NAVAL MANAGEMENT FACULTY NAVIGATION AND NAVAL TRANSPORT DEPARTMENT

INFORMATICS

Practical activities such as: Computer programming and programming languages, Applied Informatics, Technical Drawing and Infographics are carried out in this laboratory.



The general objective

Developing skills for programming and use of PCs (knowledge, capabilities, and high competence) so as to have a correct interpretation of concepts and processes in the Engineering Sciences.

Specific objectives

Students will be able to:

- ✓ operate with algorithms and algorithmic languages and programming, after getting the theoretical knowledge in programming
- ✓ analyze and tackle engineering issues, as a result of their training in getting an algorithmic thinking
- ✓ process the information by using different methods
- ✓ make the difference between types of programming languages and software application, and to see their advantages and disadvantages
- ✓ get the right view of the syntax and semantics of the medium and high-level programming languages
- ✓ solve low and medium –complexity problems using the calculation technique (selecting the adequate instruments for work)



Material basis

- ❖ 20 individual working posts, having the latest generation computers (Intel Dual Core 3,1GHz, 2GB RAM processor, 500GB Hard Disk
- ❖ Licensed software (Windows 7 Ultimate, Microsoft Office 2007, Matlab 7, Rap tor, Dev-C++)
- Mobile video projector and display
- **❖** Internet connection





List of laboratory works carried out in this laboratory

- ❖ Analysis of engineering issues and development of algorithms for getting an automatic solution to them
- ❖ Developing standard algorithms in diverse programming languages
- ❖ 2D and 3D projection and modeling
- Simulation of processes in different domains

