

## FUNDAMENTAL AND COMPLEMENTARY SCIENCE

**CAMELIA ALIBEC**

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### **TEACHING ESP & BUSINESS ENGLISH**

**Abstract:** Business English is one of the forms of the language used for a Specific Purpose, such as Maritime English, Aviation English, Technical English, or Scientific English. In the case of Business English, it is largely used in international trade by many whose primary spoken or written language is not English. In a globally connected world, Business English is becoming increasingly important as more and more companies need their staff to be multi-lingual. The ultimate goal of any Business English Course is to allow its users to effectively communicate with others in a business environment, whether that communication is in correspondence, face to face meetings, or other methods. Therefore a Business English Language Course may include topics such as business English reading, letters and resumes, business phrases, or terms in sale, advertising, and marketing.

**CARMEN ASTRATINEI, AYDİN SIHMANTEPE (pg.49-51)**

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### **TEAM TEACHING-AN ERASMUS TEACHER MOBILITY EXPERIENCE**

**Abstract:** The main purpose of this article is to advance a research proposal on Maritime English cross-cultural development programme based on the results obtained during the student/teacher Erasmus exchange between Piri Reis University and “Mircea cel Batran” Naval Academy. First, the importance of Maritime English teaching in MET institutions will be highlighted. Then, the Erasmus programme and related literature will be reviewed. Next, a careful consideration will be given to the outcomes of Erasmus teacher as well as student mobility in terms of ME language gains (for students) and teaching methods (for teachers). Finally, conclusions will be drawn as to the benefits of the Erasmus programme.

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### **SOME MATHEMATICAL METHODS APPLIED IN NAVAL FRAMEWORK: A CASE STUDY ON CRUISE SHIPS**

**Abstract:** This paper aims to highlight how the canonical-mathematical models provide solutions for the management of different problems occurring in naval framework.

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### **TWO MATHEMATICAL METHODS WITH APPLICATIONS IN NAVAL FRAMEWORK**

**Abstract:** The paper aims to present how two mathematical models, in particular the linear programming and the transport problem, can be used in solving concrete problems in naval framework.

**ENE-VOICULESCU VIRGIL, ENE-VOICULESCU CARMEN (pg.63-63)**

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### **THE EFFICIENCY OF PROCESSES FOR PREVENTION, THERAPY AND RECUPERATION OF THE MUSCULO-ARTRO-KINETIC SYSTEM**

**Abstract:** This project is known as “David SPINE CONCEPT”. At European level, (between 1988-2007), in the epidemiologic area, were outstanding international studies in the development of scientific methods of a comprehensive concept, applied and proven in practice, aimed at preventing and resolving the somatic back problems.

**ION LAZĂR**

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### **PERSONAL CONTRIBUTION TO IMPROVING MARINE STUDENTS PERFORMANCE ABILITY IN THE OBSTACLE COURSE TESTS**

**Abstract:** The main task of physical training is to enlarge the sportsmen effort capacity, the skill's and psychologic effectiveness in order to improve the performances in the main competitions. In order to conduct efficiently the training schedule, the energetic energetic systems have to be well understood, as much as every step of the system, the necessary time for the sportsmen to restore their energetic reserves spent during the training sessions and the competitions.

**CARMEN COJOCARU, DELIA LUNGU**

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### **VOCATIONAL COUNSELING AS A COMPONENT OF DIDACTIC PRACTICE**

**Abstract:** The study aims to develop a short incursion into the field of vocational counseling, with an emphasis on the student-teacher relationship as an expression of the teacher's role as counselor. We highlight the psycho-pedagogical competency and professionalism of teachers in supporting students when it comes to making the right decisions regarding their careers.

**NAIE GILLES OPRISAN**

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### **THE BEGINNING AND THE EVOLUTION OF THE GENERAL AND SPECIFIC PHYSICAL EDUCATION IN THE NAVAL EDUCATION**

**Abstract:** The present text tries to popularize (if needed anymore) this way too, of the superior education in the naval sciences developed in the „Mircea cel Bătrân” Naval Academy, Constanta, especially referring to **the general and specific physical training of the naval students**. First of all we'll try to present a synthesis of different works concerning the historical education of the naval education and the way they payed attention and involved in this branch of the specific professional training of the naval students. Then we'll refer directly to the Naval Institute „Mircea cel Bătrân” (**the actual Naval Academy**) and the serious and devoted activity in the field of **the general and specific training of the students**. We clearly showed our concern to ensure a strong material basis of this

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*branch of the educational process and we also involved very good teachers to do the instruction and the training of the students, at highest level.*

**NAIE GILLES OPRISAN**

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**THE SWIMMING, FORMS AND ITS FORMATIVE EFFECT OVER THE NAVAL STUDENTS AND THE NAVIGATORS IN THE NEWEST METHODOLOGICAL-SCIENTIFIC PERSPECTIVES**

**Abstract:** *The work presents the interest the author and other professors and researcher as well, try hard to form at the young naval students the general and specific physical and psycho-motional capabilities, so much needed aboard ships, but mostly necessary in the stormy sea or a wreckage. More than the research and its ways to act the main task of this work is to show the specific physical training mainly the swimming as the most effective way of the naval students: the swimming. The free swimming, the equipped one, the charged swimming, the materials transportation swimming. We will not try to debate thoroughly the swimming technics, the way to teach or perfectionning, or the way to raise the quality of the act in the field ( many other scientific works already did this!). We'll only try to present in here some values in tables to suggest the levels a student has to reach after a specific training period and his preparation level. Finally we'll present the opposite aspect, that the activity with the students in this specific respect can damage the levels to be reached in the general physical training, realizing this way an important time saving. We also present tables including the values we have to take into account in this respect.*

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**OPTIMIZING IMAGE CLASSIFICATION USING A NEURAL NETWORK**

**Abstract:** *The paper analyzes the images belong to someone classification using self-organizing neural network, proposing solutions for optimizations. From considerations of reducing the size of the input space of neural network and also to reduce the amount of computation is proposed using principal component analysis (PCA). The method proposed Karhunen-Loeve transform matrix calculation.*