

Limba engleza

English

Obiectiv principal

Course Objective

Instil in students the belief that technical English is essential for their insertion into the labour market. Therefore, this academic discipline aims to equip them with technical English communication skills.

Seminar

2 ore/săptămână, total 28 ore

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2 hours weekly, 28 hours total

- **Unit 1. An introduction into Engineering**
- **Vocabulary:** Branches of Engineering, Sciences and Tools characteristic to each field.
- **Grammar:** Nouns – Articles; Demonstratives - Pronouns - Possessives – Quantifiers.
- **Reading:** the most important historic events and inventions in the fields of Engineering
- **Listening:** listening to job descriptions and requirements in Engineering
- **Speaking:** describing pros and cons of using new technologies in different fields of Engineering
- **Writing:** the importance of technology in modern society
- **Unit 2. Materials and properties**
- **Vocabulary:** Types of materials: qualities, costs and properties, Metal processes.
- **Grammar:** Present Simple and Present Continuous
- **Reading:** properties of materials; basic metal processes
- **Listening:** descriptions of materials and metal processes
- **Speaking:** exchanging information about the qualities of materials
- **Writing:** a summary of the main types of materials
- **Unit 3. Technical drawing**
- **Vocabulary:** Technical drawing tools Computer aided design system (CAD), Computer aided manufacturing program (CAM)
- **Grammar:** Past Simple and Past Continuous
- **Reading:** the basic tools of the drafter; from manual drawing to computerised drawing
- **Listening:** description of CAD/CAM systems
- **Speaking:** creating CAD drawings, acting out roles about dimensions, battery size, screen size.
- **Writing:** complete the engineer's notes about a new product
- **Unit 4. Machine tools**
- **Vocabulary:** Machine tools: features and applications, Computerised numerical control machines (CNC)
- **Grammar:** Present Perfect vs. Past Simple
- **Reading:** main features of machine tools; application of CNC machines to manufacturing

processes

- **Listening:** automation of machine tools in manufacturing processes
- **Speaking:** talking about simple machines used every day and their uses
- **Writing:** completing a table about the main features of metalworking processes
- **Unit 5. Electric circuits**
- **Vocabulary:** Circuit components, Types of electric circuits, Fuses and protective devices
- **Grammar:** Means of Expressing the Future
- **Reading:** description of the main circuit components; safety devices
- **Listening:** types of circuits
- **Speaking:** discussing about products that batteries are used in and battery problems
- **Writing:** describing the basic circuit components
- **Unit 6. How energy is produced**
- **Vocabulary:** Conventional power plants, Alternative power sources, Electrical distribution system
- **Grammar:** The Comparison of Adjectives and Adverbs
- **Reading:** types of power plants; fossil fuels vs. alternative power sources
- **Listening:** different steps in the electrical distribution system
- **Writing:** completing a table about the advantages and disadvantages of alternative power sources
- **Speaking:** discussing the results of a quiz on energy saving
- **Unit 7. What is electronics?**
- **Vocabulary:** Main electronic inventions, Electronic circuits, Mobile phones and radio signals
- **Grammar:** Conditionals / IFs in Engineering
- **Reading:** short history of the main inventions in electronics;
- types of electronic circuits
- **Listening:** mobile phones and radio signals
- **Writing:** describing the main advantages and disadvantages
- of an electronic device used everyday
- **Speaking:** exchanging information about mobile phones
- **Unit 8. Telecommunications and networks**
- **Vocabulary:** Means of transmission, Ground and air transmission, Main network components, Network topologies
- **Grammar:** Bare Infinitive vs. To-Infinitive vs. –ING form
- **Reading:** ground and air transmission; network components
- **Listening:** network topologies
- **Writing:** an article about the uses of computer networks
- **Speaking:** exchanging opinions on the use of everyday means of communication

- **Unit 9. Information technology and Computer systems**
- **Vocabulary:** Computer components: hardware and software, USB flash drives, Types of computers, Internet connections
- **Grammar:** The Passive Voice
- **Reading:** computer components; types of computers;
- different types of Internet connections
- **Listening:** USB flash drives
- **Writing:** a summary of the origins of the Internet
- **Speaking:** describing the features of your own computer
- **Unit 10. Automation and robotics**
- **Vocabulary:** Automation technologies, Robot applications, Sensors and transducers
- **Grammar:** Modal verbs
- **Reading:** advantages and disadvantages of automation;
- applications of automation technologies; types of sensors
- **Listening:** robot applications; the optical mouse
- **Writing:** describing automation technologies
- **Speaking:** discussing the impact of automation on your life
- **Unit 11. Technical assistance**
- **Vocabulary:** Preventive and corrective maintenance, Car components (the exterior, the interior, under the bonnet), Auto maintenance
- **Grammar:** Prepositions of Time/Place/Movement
- **Reading:** types of maintenance; car maintenance tasks
- **Listening:** a dialogue between a mechanic and his customer
- **Writing:** describing the features of different types of maintenance
- **Speaking:** comparing the results of a quiz about car maintenance
- **Unit 12. Health and Safety at work**
- **Vocabulary:** Health and safety regulations and objectives, Safety signs and colours, Safety equipment, Fire safety plan
- **Grammar:** Questions and Answers (Yes/No Questions - Wh- questions - Subject/ Object Questions - Indirect Questions - Question Tags)
- **Reading:** safety and welfare in multinational companies; safety sign categories and meanings; safety equipment
- **Listening:** safety rules and accident procedures; dialogues about safety equipment and how to prevent accidents
- **Writing:** describing health and safety regulations and objectives
- **Speaking:** discussing
- **Unit 13. Final revision**
- **Unit 14. Final Evaluation**