FOREIGN LANGUAGE FOR SPECIFIC PURPOSES

Specialty
123 – Computer Engineering

Institute
Educational and Scientific Institute of Computer Sciences and Information Technologies

Educational program
Modern Programming, Mobile Devices And Computer Games

Department
Foreign Languages Department (275)

Level of education
Master's level

Course type
General, Mandatory

Semester
1

Language of instruction
Ukrainian, English

Lecturers and course developers

Lidiia Domochka
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Associate Professor of the Department of Foreign Languages of NTU "KhPI". Author (co-author) of 20 publications, 2 textbooks. Work experience since 2005. Extensive teaching at all university levels: Bachelor, Master, PhD. Training in the disciplines "English for Academic Purposes", "English for Specific Purposes", "English for Professional Communication", "English for Scientific Research", "English for Corporate System Development", "English for Business Communication »

More about the lecturer on the department's website
http://web.kpi.kharkov.ua/foreign/shtat-kafedri/

Bierkutova Tetiana
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Assistant Professor of the Department of Foreign Languages of NTU "KhPI" Author and co-author of more than 50 scientific and methodological publications, 3 textbooks.

Courses: "English Language", " English for Specific Purposes", "English for Specific Purposes", "English for Academic Purposes".

More about the lecturer on the department's website
http://web.kpi.kharkov.ua/foreign/shtat-kafedri/

General information

Summary

The course "Foreign Language for Specific Purposes" is a basic academic discipline. It is studied in the 1st semester, covers all aspects of language proficiency: listening, dialogic and monologue speech, various types of reading, written speech, searching for information in a foreign language, academic oral and written speech and is an educational discipline from the cycle of special mandatory training in specialty 113 " Applied Mathematics ". The discipline is taught in 1 semester and in the amount of 90 hours (3 ECTS credits), in particular: practical classes - 32 hours, independent work - 58 hours. The study of the discipline ends with a credit test.

Course objectives and goals

To form general and professional-oriented communicative speech competences for the Master's students to ensure their effective communication in the academic and professional environment. To contribute to the formation of Masters' abilities to solve problems of a research and/or innovative nature using the competencies acquired while studying a foreign language. To develop academic and professionally oriented communicative language competence, which will contribute to the conduct of scientific research necessary for writing a dissertation and presenting the results of their research in a foreign language both orally and in writing during the defense of the final thesis after completing the Master's degree.

Format of classes

Classes, consultations, independent work. Formative assessment: practice tests. Final assessment: credit test /exam.

Competencies

GC 08. The ability to communicate in a foreign language.

Learning outcomes

PLO12. To communicate freely orally and in writing in Ukrainian and one of the foreign languages (English, German, Italian, French, Spanish) when discussing professional issues, research and innovations in the field of information technologies.

Student workload

The total scope of the course is 90 hours. (3 ECTS credits): no lectures, practical classes – 32 hours, self-study – 58 hours.

Course prerequisites

The degree of higher education is Bachelor's Degree.

Features of the course, teaching and learning methods, and technologies

Conversations (with the teacher and classmates), work in pairs and groups, performing situational tasks, working with textbooks and manuals, role-playing games, writing letters, documents, annotations, abstracts, searching for information in printed literature on the assignment.

Program of the course

Topics of the practical classes

Content unit No. 1 (Professional Foreign Language):

National Technical University "Kharkiv Polytechnic Institute"

Practical lesson 1-2
Topic 1. Lexical-stylistic and grammatical features of scientific and professional text.
Style of English-language scientific and professional text. Terms, internationalisms. Notations, symbols, abbreviations.
Typical grammatical structures.
The concept of equivalent. Limited machine translation capabilities.
Work methods for glossary formation.
Practical lesson 3
Topic 2. Genres of scientific and professional literature.
Linguistic features of the main genres of scientific publications: article, report, theses, abstract, abstract, scientific article, etc.
Types of scientific publication: theoretical, problematic, debatable, polemical, etc.
Global scientific language.
Practical lesson 4
Topic 3. Genres of scientific and professional literature.
Linguistic features of the main genres of scientific publications: article, report, theses, abstract, abstract, scientific article, etc.
Types of scientific publication: theoretical, problematic, debatable, polemical, etc.
Global scientific language.
Practical lesson 5-7
Topic 4. Typical functional structures of scientific and professional English.
System and purpose of typical functional structures. Working with speech clichés and patterns.
Practical lesson 8-9
Topic 5. Interpretation of visual aids accompanying the text.
Description of visual aids (graphs, tables, diagrams, drawings, etc.). Generalization of the main results of observation or experiment in graphic form.
Practical lesson 10
Topic 6. Scientific and written communication.
Organization of a scientific text: introduction, main part, conclusion.
Methods of scientific presentation: description, narration, reasoning.
Structural and semantic models of scientific presentation.
Formulation of the title of a scientific paper.
Application of functional structures in scientific and written communication.
Practical lesson 11
Topic 7. Referral.
Purpose and structure of the essay. Types of essays. Linguistic features of essays.
Practical lesson 12-13
Topic 8. Annotation, thesis writing.
Methodology of annotation.
Basic requirements for the language of scientific theses.
Practical lesson 14
Topic 9. Scientific article.
Structure, elements of a scientific article.
Basic linguistic requirements for the language of a scientific article.
Practical lesson 15-16
Topic 10. Dialogic speaking on professional topics.
Differences and similarities between oral and written forms of communication. Peculiarities of dialogic and monologic speech in the professional field.
Formulation of typical questions.
Discussion of the main trends in the development of the specialty. Discussion of the master's thesis.
Discussion of the results of scientific research.

Self-study

For practical lesson 1-2:

Formation of a terminological glossary by profession, master's thesis.
Practice reading terms and international words. Tasks for the assimilation of typical lexical and grammatical structures.
Reading authentic literature by profession.
Practical tasks on the formulation of equivalents.
For practical lesson 3-4:
Reading authentic literature by profession.
Structuring, analysis, definition of main ideas, conclusions, systematization of what has been read
Completing tasks to learn typical functional structures.
To practical lesson 5:
Reading authentic literature by profession. Description of graphs.
Descriptions of scientific works according to structural-semantic models: statement of fact-evidence-conclusion, statement of fact-commentary of fact-conclusion, thesis-antithesis-evidence-conclusion.
Tasks for mastering lexical-grammatical and functional structures for written presentation.
Writing an essay.
Before practical class 6-8
Reading authentic literature by profession.
Writing annotations.
Before the practical lesson 9-12:
Writing theses of a conference report.
Before practical class 13-14:
Translation of the main elements of a scientific article from the native language into English.
Rules for design of bibliographic sources, references.
Forming a glossary for writing an article on the topic of your scientific research.
Practice formulating typical questions.
Before practical class 15-16:
The task of learning language clichés for oral communication. Preparation of materials for discussion of the main trends in the development of the specialty, master's thesis, results of scientific research.

Course materials and recommended reading

1. O.Lazareva, O.Kovtun, L.Dyomochka. Science speaks English. Kharkiv: NTU "KhPI", 2019. – 276p.
   https://repository.kpi.kharkov.ua/handle/KhPI-Press/40641
2. Англійська мова. Академічне письмо. Академічна доброчесність : метод. вказівки. / А. Є. Болдирева, І. В. Раєвська; Одес. нац. ун-т імені І. І. Мечникова. – Одеса : видавець Букаєв Вадим Вікторович, 2021. – 40 с.
   http://dspace.onu.edu.ua:8080/bitstream/123456789/31572/1/engl_mova.pdf
3. Англійська мова в сфері інформаційних та комп'ютерних технологій [Електронний ресурс]: навчальний посібник для студентів спеціальності 121 «Інженерія програмного забезпечення», 126 «Інформаційні системи та технології» / КПІ ім. Ігоря Сікорського ; уклад.: М. П. Колісник, Ю. А. Корницька. – Електронні текстові дані (1 файл: 2,29 Мбайт). – Київ : КПІ ім. Ігоря Сікорського, 2021. – 120 с.
   https://ela.kpi.ua/handle/123456789/43412
4. Доронкіна, Н. Є. Практикум англомовного професійного спрямування. Збірник текстових завдань: навчальний посібник / Н. Є. Доронкіна, Л. В. Ломакіна ; КПІ ім. Ігоря Сікорського. – Електронні текстові дані (1 файл: 153 Кбайт). – Київ : КПІ ім. Ігоря Сікорського, 2021. – 82 с. [Електронний ресурс]
   https://ela.kpi.ua/handle/123456789/39752
5. Англійська мова для студентів спеціальності «Комп'ютерна інженерія» : навчально-методична розробка. Ч. 2 / уклад. Н. І. Годованець, В. П. Леган, І. О. Бура. – Ужгород : Говерла, – 2023. – 76 с.
   https://dspace.uzhnu.edu.ua/jspui/handle/lib/47860

Additional materials

6. Запотічна Р. А. English for Specific Purposes: Economics in Use. (Англійська мова для спеціальних цілей: Економіка у практиці) : навчальний посібник / Р. А. Запотічна. - Львів: Львівський державний університет внутрішніх справ, 2021. - 88 с. [Електронний ресурс] http://dspace.lvduvs.edu.ua/handle/1234567890/3797

7. Сковронська І. Ю. English for Information Technology and Computing: інтерактивний навчальний посібник / І. Ю. Сковронська, Л. І. Кузьо, Т. П. Дяк. - Львів: Львівський державний університет внутрішніх справ, 2022. - 228 с. [Електронний ресурс] http://dspace.lvduvs.edu.ua/handle/1234567890/4433

Assessment and grading

Criteria for assessment of student performance, and the final score structure

100% final assessment in the form of an exam/credit test (40%) and progress tests (60%)
40% - a credit test
60% - progress tests
A credit test: written task, listening task, reading task and speaking.
Progress tests: 2 online tests (20% each).

Grading scale

Total points	National	ECTS
90–100	Excellent	A
82–89	Good	B
74–81	Good	C
64–73	Satisfactory	D
60–63	Satisfactory	E
35–59	Unsatisfactory (requires additional learning)	FX
0–34	Unsatisfactory (requires repetition of the course)	F

Norms of academic integrity and course policy

The student must adhere to the Code of Ethics of Academic Relations and Integrity of NTU "KhPI": to demonstrate discipline, good manners, kindness, honesty, and responsibility. Conflict situations should be openly discussed in academic groups with a lecturer, and if it is impossible to resolve the conflict, they should be brought to the attention of the Institute's management.
Regulatory and legal documents related to the implementation of the principles of academic integrity at NTU "KhPI" are available on the website: http://blogs.kpi.kharkov.ua/v2/nv/akademichna-dobrochesnist

Approval

Approved by	Date, signature	**Head of the Department**
	28.08.2023	Tatiana GONCHARENKO
	Date, signature	**Guarantor of the Educational Program**
	28.08.2023	Svitlana HAVRYLENKO