|  |  |  |
| --- | --- | --- |
|  | Syllabus  Course Program |  |
| English for Professional Purposes |

|  |  |
| --- | --- |
| Specialty 171 – Electronics | Institute Institute of Education and Science in Power Engineering, Electronics and Electromechanics |
| Educational program Electronics | Department Department of Industrial and Biomedical Electronics |
| Level of education Master's level | Course type Mandatory |
| Semester 9 | Language of instruction English |

## Lecturers and course developers

|  |  |
| --- | --- |
|  | First name and surname Valeriia Sadkovska  [Valeriia.Sadkovska@khpi.edu.ua](mailto:Valeriia.Sadkovska@khpi.edu.ua)  An assistant professor. Deputy Head of the Department for organizing methodological work of Institute of Education and Science in Power Engineering, Electronics and Electromrchanics.  Published 2 educational and methodological manuals, 30 professional articles, publications. A member of the British Council, the International Professional Association of English Teachers TESOL - Ukraine.  [More about the lecturer on the department's website](https://www.kpi.kharkov.ua/ukr/) |
|  | First name and surname [email@khpi.edu.ua](mailto:email@khpi.edu.ua)  Academic degree, academic title, position  General information, number of publications, main courses, etc. |
|  | First name and surname [email@khpi.edu.ua](mailto:email@khpi.edu.ua)  Academic degree, academic title, position  General information, number of publications, main courses, etc.  [More about the lecturer on the department's website](https://www.kpi.kharkov.ua/ukr/) |

### General information

### Summary

The course «Foreign Language for Professional Purposes» is designed to cover all aspects of language proficiency focusing on effective functioning in potential professional environment: listening, dialogic and monologue speech, various types of reading, written communication, information processing in a foreign language, academic verbal and written communication and it is a discipline of special compulsory training for specialty 171 «Electronics»

### Course objectives and goals

To formulate general and professionally – oriented communicative speaking competences for providing effective communication in academic and professional environment. To assist forming abilities to solve research and innovation tasks with application of special and general competences received in studying foreign language. To develop self-study skills, to maintain the required level of knowledge, improving professional qualification by means of foreign language.

### Format of classes

Practical classes, consultations, self-study. Final control in the form of an exam.

### Competencies

GC 2. Ability to communicate in a foreign language.

GC 3. Ability to communicate in the national language both orally and in writing.

GC 8. Ability to communicate with representatives of other professional groups at different levels (with experts from other fields of knowledge/types of economic activity)

### Learning outcomes

R 3. Cooperate with the customer in formulating the technical task and discussing technical solutions and project implementation results, conduct a reasoned professional and scientific discussion.

R 6. To ensure the professional development of team members taking into account the world level of scientific and engineering achievements in the field of development and operation of electronic components, devices and systems.

R 7. Carry out informational and scientific research using scientific, technical and reference literature, databases and knowledge, other sources of information; critically interpret available knowledge and data, form directions of research and development taking into account local and foreign experience.

R 9. Coordinate the work of teams of performers in the field of scientific research, design, development, analysis, modelling, production and testing of electronic components, devices and systems, taking into account the requirements for compliance with civil and moral values, human rights and freedoms, and the rule of law.

R 13. Organize and manage research, innovation and investment activities, business projects and production processes taking into account technical, technological and economic factors.

### Student workload

The total volume of the course is 90 hours (3 ECTS credits): practical classes - 32 hours, self-study - 58 hours.

### Course prerequisites

Foreign Language (Bachelor's Program)

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

To activate learning and cognitive activity of students by learning the subject it is used a range of teaching methods: evidently and illustrative, reproductive, problem-based, partial search, research learning. The following types of work are proposed: peer-to-peer, teamwork, gamification, the use of certain software, etc.

## Program of the course

### Topics of the lectures

#### Topic 1. Lexical, Stylistic and Grammar Characteristics of Scientific Professional Texts.

The style of English scientific professional texts. Terms, internationalism. Symbols, abbreviations.

#### Topic 2. Genres of Scientific Professional Literature

Linguistic characteristics of the main genres of scientific publications: article, report, theses, abstract, essay, scientific article.

#### Topic 3. Searching, Reading and Processing of Information in Professional and Scientific Sphere

Types of information: main, additional, for explanation, for augmenting, for illustration, for discussion. Strategy of searching and selection of information.

#### Topic 4. Typical Functional Structures of Scientific Professional English.

The system and purpose of typical functional structures. Working with speaking clichés and patterns.

#### Topic 5. Interpretation of Visual Tools Accompanying Texts.

Description of visual tools (graphs, tables, schemes, drawings, etc.). Generalization of the main results of observation or experiments in graphic variant.

Topic 6. Scientific Written Communication

Organization of scientific texts: introduction, main body, conclusion.

Topic 7. Referring.

The purpose and structure of an essay. Types of essays. Linguistic characteristics of essays.

Topic 8. Writing Abstracts, Theses.

Methodology of writing abstracts. The main requirements to the language of scientific theses.

Topic 9. Scientific Articles.

The structure and elements of scientific articles. The main linguistic requirements to the language of scientific articles.

Topic 10. Dialogical Speaking on Professional topics.

The difference and similarity of verbal and writing forms of communication. The characteristics of dialogical and monologue speaking in professional sphere. Formulating typical questions. The discussion of the main tendencies of professional development. The discussion of Master's projects. The discussion of scientific research results.

### Topics of the workshops

### Topics of the laboratory classes

### Self-study

Self-study includes the following tasks: individual reading, selecting and processing information, writing abstracts and essays, making presentations, etc. Methods of control and assessment of self-study: diagnostic, formative, summative, standardized tests, etc.

## Course materials and recommended reading

Compulsory Materials

1. O. Lazareva, L. Dyomochka, O. Kovtun. Science Speaks English, - Kharkiv: NTU «KhPI» Press, 2019. – 276 p.

2. O. Lazareva, L. Dyomochka, O. Kovtun. Functional Structures of Academic English, - Kharkiv: NTU «KhPI» Press, 2019. – 44 p.

3. John Trzeciak, S. E. Mackay. Study Skills for Academic Writing, Student's Book, 2006. -129р.

4. T. Goncharenko, L. Dyomochka, Academic English Learner Guide for 5 and 6-year students «Learning to write scientific Papers», - Kharkiv: NTU «KhPI» Press, 2023. - 45p.

Additional Materials

1. M.Terry, J. Wilson. IELTS Practice Tests Plus 2, Longman, 2015. – 192 р.

Murphy R., English Grammar in Use. **CEF Level**: B1 Intermediate - B2 High Intermediatе. Cambridge University Press, 2018. – 396 р.

2. P. Cullen. Vocabulary for IELTS, Cambridge University Press, 2008. – 128 р.

3. Marion Grussendorf. English for presentations. Oxford University Press. 2007.– 80 р. <https://www.academia.edu/33346126/English_for_Presentations_Marion_Grussendorf_EXPRESS_SERIES> or on the site of the Department of Foreign Languages <http://www.kpi.kharkov.ua/ukr/department/inozemnih-mov/>

4. Brook–Hart G. Complete Advanced / G. Brook-Hart, S. Haines. – Cambridge: Cambridge University Press, 2017. – 145 p.

## Assessment and grading

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Criteria for assessment of student performance, and the final score structure Description of the final score structure, course requirements, and necessary steps to earn points, especially paying attention to self-study and  individual assignments. | Grading scale  |  |  |  | | --- | --- | --- | | Total points | National | ECTS | | 90–100 | Excellent | A | | 82–89 | Good | B | | 75–81 | Good | C | | 64–74 | Satisfactory | D | | 60–63 | Satisfactory | E | | 35–59 | Unsatisfactory (requires additional learning) | FX | | 1–34 | 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 Sergiy Kryvosheyev |
|  | Date, signature | Guarantor of the educational program Volodymyr Ivakhno |