Syllabus
Course Program

FOREIGN LANGUAGE FOR SCIENTIFIC RESEARCH

Specialty
121 Software Engineering
122 Computer Science

Institute
Educational and Scientific Institute of International Education

Educational program
Software Engineering
Computer Science and Intelligent Systems

Department
Department of Foreign Languages (275)

Level of education
Bachlor's level

Course type
Selective

Semester
3,4,5

Language of instruction
English, Ukrainian

Lecturers and course developers

Olga Lazaryeva
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Ph.D. (Technical Sciences), Associate Professor of the Department of Foreign Languages (NTU "KhPI"), Associate Professor of the Higher Attestation Commission.
Author (co-author) of 48 publications, 3 textbooks. Work experience since 2006. Extensive teaching at all university levels: Bachelor/Master/PhD: "English for Specific Purposes", “English for Scientific Research”, “English for Corporate Systems Development”, “English for Business Communications”, “English for Professional Communication”, "English for Academic Purposes".
More about the lecturer on the department's website
http://web.kpi.kharkov.ua/foreign/shtat-kafedri/

Tetiana Sukhanova
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Ph.D (Philological Sciences), Associate Professor of the Department of Foreign Languages (NTU "KhPI"), Associate Professor of the Higher Attestation Commission.
Author (co-author) of more than 70 publications. Work experience since 1994. Teaching the discipline "English for Specific Purposes", “English for Scientific Research”, “English for Corporate Systems Development”, “English for Business Communications”, “English for Professional Communication”.
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 Scientific Research" covers all aspects of language proficiency: listening, dialogic and monologue speech, various types of reading, written communication, information retrieval in a foreign language, academic oral and written communication and is an educational discipline from the profiled package of disciplines 01 "Research and Development". The course is taught in 3,4,5 semesters, 270 hours in total (9 ECTS credits), in particular: practical classes - 192 hours, independent work –78 hours. The study of the discipline ends with an exam.

Course objectives and goals

To develop students' professionally-oriented communicative language competences to enable them to communicate effectively in their academic and professional setting.

Format of classes

Classes, consultations. Formative assessment: practice tests. Final assessment: credit test (credit test/exam).

Competencies

121 Software Engineering
К02. Ability to apply knowledge in practical situations.
К04. Ability to communicate in a foreign language both orally and in writing.
К05. Ability to learn and master modern knowledge.
К06. Ability to search, process and analyze information from various sources.
К12. Ability to preserve and increase moral, cultural, scientific values and achievements of society based on an understanding of the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technology, to use various types and forms of physical activity for active recreation and healthy lifestyle.
К17. Ability to comply with specifications, standards, rules and guidelines in the professional field when implementing life cycle processes.
122 Computer Science
GC3. Knowledge and understanding of the subject area and understanding of professional activities.
GC5. Ability to communicate in a foreign language.
GC6. Ability to learn and master modern knowledge.
GC7. Ability to search, process and analyze information from various sources.

Learning outcomes

121 Software Engineering
PLO01. Analyze, purposefully search and select information and reference resources and knowledge necessary for solving professional problems, taking into account modern achievements of science and technology.
PLO23. Be able to document and present the results of software development.
122 Computer Science
PLO21. Apply the principles of moral, cultural, scientific values and multiply the achievements of society, use various types and forms of physical activity for a healthy lifestyle and professional activities in the field of information technology.

Student workload

The total volume of the course is 270 hours (9 ECTS credits): practical classes – 192 hours, self-study- 78 hours.

Course prerequisites

Knowledge and practical skills from the discipline "English for Professional Purposes" are necessary for successful course completion.

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
- Speech with a brief presentation
- Search for information in printed literature and the Internet according to the task
- Writing letters, documents, reports

Program of the course

Topics of the workshops

Content block № 1 (Formulation of ideas for conducting scientific research):
Classes 1-6
Topic: History of scientific thought.
Classes 7-12
Topic: Job Satisfaction.
Classes 13-20
Topic: Promoting Ideas.
Classes 21-26
Topic: Environmental problems. Alternative viewpoints
Classes 27-31
Topic: Working environment.

Content block № 2 (Presenting Information):
Classes 32-34
Topic: Preparing and Delivery. Using Body Language.
Classes 35-38
Topic: Introducing a presentation. Greeting.
Classes 39-42
Topic: Introducing a presentation. Organizing a presentation.
Classes 43-47
Topic: Structuring the Body of presentation. Signposting.
Classes 48-52
Topic: Using visual aids.
Classes 53-57
Topic: Interpreting graphical information.
Classes 58-62
Topic: Organizing a Conclusion

Content block № 3 (Let's communicate professionally!):
Classes 63-67
Topic: Understanding virtual communication.
Classes 68-74
Topic: Preparing for successful communication.
Classes 75-83
Topic: Working in virtual groups.
Classes 84-96
Topic: Working with technology.

Self-study

Classes 1-6
Describing the history of scientific research. Complete a chronological table
Classes 7-12
Explain why you have chosen your major. Write a letter of application
Classes 13-20
Advertising of various events and organizations (e. g. your university, department etc.)

Classes 21-26
Describe the ecological situation of your city (country) and possible ways to solve them
Classes 27-31
Describe your possible working place
Classes 32-34
Prepare the beginning of a presentation based on Text of the topic
Classes 35-38
Prepare a short report with numeric information based on the text of the topic
Classes 39-42
Prepare the introduction to your presentation
Classes 43-47
Make several variants of a plan of your future presentation
Classes 48-52
Prepare your suggestions on effective use of visuals
Classes 53-57
Prepare a part of a presentation describing a graph or a pie-chart
Classes 58-62
Formulate your own tips for a good conclusion. Prepare the answers to possible questions
Individual task: Prepare a presentation on your major
Classes 63-67
Study the situation and discuss it in groups: Key competences for working virtually
Classes 68-74
Study the situation and discuss it in groups: Keeping people focused
Classes 75-83
Study the situation and discuss it in groups: Success factors in virtual meetings.
Classes 84-96
Study the situation and discuss it in groups. Choosing technology for collaboration and engagement.

Course materials and recommended reading

Compulsory materials:

1. Mark Powell. Presenting in English: How to Give Successful Presentations (Updated Edition). - National Geographic Learning, 2012. - 127p.
2. Eric H. Glendinning. Oxford English for Information Technology: Student's book. / Eric H. Glendinning. – Oxford: Macmillan, Eric H. Glendinning 2015. -137p.
3. Aileen Pincus. Essential Managers: Presenting. / - Aileen Pincus. - Dorling Kindersley, 2015. – 96p.
4. Glenda Gay. Oxford Information Technology for CSEC: Third edition/ Glenda Gay, Ronald Blades. - Oxford University Press, 2018. – 320p.
5. Glenda Gay. Oxford Information Technology for CSEC Workbook: Third Edition/ Glenda Gay, Ronald Blades - Oxford University Press, 2019. – 96p.
6. Functional structures of academic English. Методичні вказівки до практичних занять з курсу «Англійська мова за професійним спрямуванням» для студентів всіх спеціальностей / уклад. Лазарєва О. Я., Ковтун О.О., Дьомочка Л.В., Харків: НТУ "ХПІ", 2019. – 44с.
7. Frances Eales, Steve Oakes. Speak Out. Intermediate. Students' book. Pearson Education Limited, 2015. – 176p.
8. Gwenn Wilson. 100% Job Search Success (100% Success Series) 3rd Edition. / Gwenn Wilson, Cengage Learning, 2014, - 240p.
9. O.Lazareva, O.Kovtun, L.Dyomochka. Science speaks English. Kharkiv: NTU "KhPI", 2019. – 276p.
10. Jackie Black. Working Virtually International management English. / Jackie Black. - Delta Publishing, 2020. – 119p.
11. Diana Hopkins, Pauline Cullen. IELTS Grammar for Bands 6.5 and above. Cambridge University Press, 2021. – 268p.
12. David Grant, Robert McClarty. Business Basics. Student's book. New Edition. Oxford: Oxford University Press, 2015. – 176p.

Additional materials:

1.David Grant. Business Result Elementary Student's Book with DVD-ROM and Interactive Workbook. / David Grant, John Hughes, Nina Leeke, Rebecca Turner. Oxford University Press, 2017. -128p.
2.Scott L. Girard. International Business Basics / Scott L. Girard, Jr. Michael F. O'Keefe, Marc A. Price, Kate Scribner. Career Press, 2015. – 192p.
3.James P. Neelankavil. Basics of International Business: 2nd edition / James P. Neelankavil and Anoop Rai: Sheron Enterprises, Inc. 2013. – 236p.
4.Shad Morris. International Business, 2nd Edition / Shad Morris, James Oldroyd. Wiley, 2020. – 432p.
5.Murphy R., English Grammar in Use. CEF Level: B1 Intermediate - B2 High Intermediate. Fifth edition. Cambridge University Press, 2019p. – 399p.
6.Brook–Hart G. Business Benchmark / G. BrookHart, N. Whitby. – Cambridge: Cambridge University Press, 2017. – 145 p.

Assessment and grading

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

100% Final assessment as a result of Final exam (40%) and Continuous assessment (60%).
40% - final exam
60% - formative assessment

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
27.04.2023

Head of the department
Tetiana GONCHARENKO

Date, signature
08.06.2023

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