



# Course Syllabus

## 1. Course Title:

Professional and Academic Communication in Computer Science

## 2. Academic Level:

PhD

## 3. ECTS Credits:

5 ECTS

## 4. Semester:

4, spring semester

## 5. School/Department:

Institute of Nanotechnologies, Electronics and Equipment Engineering / Department of Radio Engineering Electronics and Nanoelectronics

## 6. Location:

Taganrog Campus, 2 Shevchenko St., Taganrog

## 7. Instructor:

Prof. Ekaterina Korman, PhD, email: [eakorman@sfedu.ru](mailto:eakorman@sfedu.ru)

## 8. Language of Instruction:

English

## 9. Course Description:

The course is focused on developing skills of written communication in English in scientific, academic, and professional fields. Students learn how to prepare publications and reports for international conferences, congresses, and forums in English. Students are also trained to take part in international programs and projects.

## 10. Course Aims:

- to increase the level of English proficiency,
- to increase the level of students' communicative competence enabling them to solve professional problems in typical situations of business, academic and scientific intercultural interaction,
- to promote the results of scientific and professional activities,
- to facilitate students' active integration into the international scientific and academic community.

### 11. Specific entry requirements (if any):

English B1

*Knowledge:* main features of EAP, basic requirements to publications and acknowledging sources.

*Abilities:* to carry out research, to estimate its results and prospects, to prepare abstracts, articles, reviews, surveys, etc.

*Skills:* to present in English the results of research and professional activities.

### 12. Course Content:

#### **Section 1. Intercultural communication in the area of computer sciences.**

Forms of scientific intercultural communication. Written and oral scientific communication. Formal and informal scientific communication. The main features of intercultural scientific communication. Science Communication VS Scientific Communication. Academic and scientific written communication in the area of computer sciences. Requirements for scientific text and design of scientific works.

#### **Section 2. Preparing and editing research papers in the area of computer sciences.**

Abstraction and annotation of scientific texts. Peculiarities of translation of scientific texts in the area of computer sciences. Use of automated translation systems and post-editing of machine translation. Structure of an abstract. Target types of reviews. Methodology for preparing a scientific article. Structural-compositid logical organization of the text of a scientific article.

### 13. Intended Learning Outcomes:

*Knowledge:* features of English for special purposes; basic principles of preparation and design of academic texts (abstracts, essays, reviews, articles, etc.); basic translation techniques and transformations.

*Abilities:* to compose, to translate and to edit academic texts in English; to use basic methods and techniques of communication to solve different problems of professional activities.

*Skills:* to think abstractly, to analyze, to synthesize the information received in English, to make prediction; to apply modern translation technologies and CAT programs that provide more efficient and high-quality translation of academic and professional texts.

### 14. Learning and Teaching Methods:

**Passive:** lecture-visualization using presentation material, oral questioning.

**Active:** independent work with literature, scientific, educational and reference digital resources, performance of analytical tasks, creation of reproductive individual works (essays, scientific reports), independent production of texts with new settings.

**Interactive:** participation in practical classes, participation in discussions, presentation of project assignments in English. The course can be carried out partly or as a whole using electronic and distant educational system of University.

### 15. Methods of Assessment/Final assessment information:

Final assessment – credit.

Assessment methods are interviews, individual tasks, particularly:

Work in practical classes – 40 points.

Individual task (abstract) – 20 points.

Individual task (article) – 40 points.

Students are expected to get at least 60 points in order to complete the course and up to 10 extra points manifesting impressive results during the study of the course reflected in publishing articles in the international citation bases Scopus, Web of Science.

### 16. Reading List:

Lillis, T. & Curry, M. J. (2010). Academic writing in a global context: The politics and practices of publishing in English. Abingdon, Oxford, UK: Routledge. 224 p.

Mack Ch. A. (2018) How to write a good scientific paper, SPIE, USA – 110 p.

McCarthy M. & O'Dell F. (2016) Academic Vocabulary in Use, Vocabulary reference and practice, Cambridge University Press. 177 p.

Hewings M., Thaine C. (2012) Cambridge Academic English: C1 Advanced, Cambridge University Press. 178 p.

Tripathy, P., Tripathy, P.K. (2017) Fundamentals of Research. A Dissective View. Anchor Academic Publishing. 212 p.