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|   | **Course Syllabus** |

**1.** **Course Title:**

Scientific Papers, Presenting and Pitching Research in Applied Informatics

**2. Academic Level:**

Master

**3. ECTS Credits:**

8 ECTS

**4. Semester:**

1 and 2, autumn and spring semesters

**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

**8. Language of Instruction:**

English

**9. Course Description:**

* to increase the level of English proficiency,
* to increase the level of students’ communicative competence in scientific intercultural interaction, especially in the area of applied informatics,
* to promote the results of scientific and professional activities,
* to facilitate students’ active integration into the international scientific and academic community.

The course is focused on developing skills of written and oral communication in English, presenting and pitching research in the field of applied informatics. Students learn how to prepare reports and presentations for international conferences in English and how to solve professional problems in typical situations of business, academic and scientific intercultural interaction. Students are also trained to take part in international programs and international research projects in the area of applied informatics.

**10. Course Aims:**

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

English B1

*Knowledge:* main features of EAP, terms in the field of applied informatics, basic requirements to presentations, proceedings, basic communication techniques, basic principles of preparation and design of academic texts of various types (abstracts, essays, reviews, articles, etc.); basic translation techniques and transformations.

*Abilities:* to carry out research, to estimate its results and prospects, to prepare presentations and present reports in the field of applied informatics, to compose, to translate and to edit academic texts in English.

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

**12. Course Content:**

## Topic 1.Intercultural communication in the field of science and education.

Concept and basic principles of scientific and professional intercultural communication. Strategies and tactics for effective intercultural communication. Written and oral scientific communication. Globalization of science and national-cultural specifics of scientific communication. Communication in science: current state and challenges. Main drivers of intercultural science communication. Peculiarities of translation of scientific texts. Use of automated translation systems and post-editing of machine translation.

**Topic 2. Written scientific communication. Business correspondence. Preparation and submission of applications for grants and participation in various events.**

Publication activity. Scientific communication in the field of applied informatics: terminological, grammatical, and stylistic aspects. Requirements for scientific text and design of scientific works; bias and liability for plagiarism. Business correspondence in the field of science, education and professional activity. Establishment and development of scientific cooperation, main trends. Correspondence and negotiation. Electronic and network forms of scientific communication. Preparation of a business letter. Preparation and submission of applications for participation in grants and competitions, cover letters. Research / Grant Application Techniques (Academic Proposal). Russian and international standards for filing an application. Preparation and submission of applications for participation in conferences, congresses, forums, and other events.

**Topic 3. Participation in international conferences. Preparation of speeches and presentations.**

Effective scientific communication at international events. Linguistic and stylistic features of a scientific text in English related to the area of applied informatics. Tactics and strategy for preparing a successful public speech. Requirements for a scientific report. Structure of the report. Justification of research relevance, novelty, scientific and theoretical significance. Recommendations for the layout, content, and design of presentations. Presenting and pitching research outcomes in the field of applied informatics.

**Topic 4. Preparation, translation and editing of academic texts**

Metalanguage of scientific and academic discourse, including the field of applied informatics. Abstracting and annotating scientific texts. Target types of reviews. Stylistic design and editing of scientific papers. Division into sections, formulation of headings and subheadings. Integration of illustrative material and its description in the text of a scientific article. IMRAD: Introduction, Methods, Results, Discussion, Conclusion. Citation: methods, techniques, and types. Rules for references and footnotes. Standards for bibliography formatting.

**13. Intended Learning Outcomes:**

Knowledge: key features of EAP and ESP; basic principles of preparation and design of scientific papers, presentations, and reports in the field of applied informatics.

Abilities: to prepare and publish scientific papers in the field of applied informatics, to present reports in English, to prepare presentations; to use basic methods and techniques of communication in English to solve different problems of professional activities.

Skills: to think abstractly, to analyze, to synthesize the information received in English, to make prediction; to provide efficient and high-quality presentation and pitching of research and professional results; to prepare and to publish scientific papers in the field of applied informatics.

**Passive:** 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, incl. Microsoft Teams, Cisco, Moodle (BigBlueButton).

**14. Learning and Teaching Methods:**

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

Final assessment in the end of each term/semester – credit. Assessment methods are interviews, individual tasks, project assignments, particularly:

1 term. Work in practical classes – 36 points. Test work – 12 points. Project assignments – 52 points.

2 term Work in practical classes – 36 points. Project assignments – 64 points.

Students are expected to get at least 60 points in order to complete the term and up to 10 extra points manifesting impressive results during the study of the course reflected in presenting reports at international conferences or preparing scientific papers in high-impact journals.

**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.

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

Online resources

1) Wordvice Writing & Editing <https://blog.wordvice.com/writing-and-editing-guide/>

2) Blog by Anna Clemens (Academic writing coach) <https://www.annaclemens.com/about>

3) Elements of Style for Writing Scientific Journal Articles <https://www.gfdl.noaa.gov/wp-content/uploads/2018/08/Elements_of_Style.pdf>

4) Academic Phrases, Sentences and Vocabulary <https://www.ref-n-write.com/blog/research-paper-example-writing-literature-review-section-academic-phrasebank-vocabulary/>

5) International Journal of Geoinformatics <https://journals.sfu.ca/ijg/index.php/journal/index>

6) Geoinformatica (Springer)

[https://www.springer.com/journal/10707](https://www.springer.com/journal/10707%207)

[7](https://www.springer.com/journal/10707%207)) Applied Informatics <https://applied-informatics-j.springeropen.com/>