TOMSK POLYTECHNIC UNIVERSITY

ТОМСКИЙ ПОЛИТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ

APPROVED BY

Director of the School of Computer Science & Robotics
_____ Dmitriy M. Sonkin

Professional English Training

Fieldof Study: Major 09.04.04 Software Engineering

Programme name: Big Data Solutions

Level of Study: Master Degree Programme

Year of admission: 2019

Semester, year: *1, 2*

ECTS: *6*
Total Hours: *216*
Contact Hours: *128*

- **Lectures:** –
- **Labs:** –
- **Practical experience:** *128*

Assessment: credit test

Department: Software Engineering

Head of Department _____/ Sherstnev V.S.

Instructor(s) _____/ Gubin E.I.

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Course Name

Course Overview

Course Objectives	The objective of mastering the discipline is to develop communication skills which enable the speaker to solve communicative tasks in scientific and professional spheres of discourse.
Learning Outcomes	Upon completion of the course, a graduate **will obtain the knowledge of:** – grammatical features of words of different word classes; – main models of sentences; – rules of creation of passive constructions; – rules of the use of active and passive participles; – rules of the use of adverbial participles; – ways of transformation of sentences of the scientific speech; – means of expression of the semantic relations in the scientific text (time, definition, cause and effect, the purpose, a condition, comparison); – ways of characteristic of a subject, phenomenon (definition, properties, structure, quantitative characteristics); – language transmission media of information of the reviewed text, the organizations of logic and structure of the scientific text, authorization, assessment; – language means of formulation of an object and subject, purpose and research problems; – language means of justification of relevance, technique, novelty and importance of a research; – rules of an execution of the list of the used sources in Russian; – presentation design rules to protect the results of scientific work in Russian. Upon completion of the course, graduates are also expected to develop the following **skills:** – to encode semantic parts in the sentence in order to correctly understand the statement in English; – to transform sentences of the scientific speech, using various grammatical means of the English Language; – to make statements, expressing the necessary semantic relations by means characteristic of the scientific style of the English language; – to give characteristic of a subject, phenomenon, competently using resources of scientific style of English; – to use language means of transmitting information of the reviewed text, the organizations of logic and structure of the scientific text, authorization, assessment; – to formulate an object and a subject, the purpose and research problems; – to prove relevance, a technique, novelty and the importance of a research; – to prepare the list of the used sources, the conclusion of the scientific text, a presentation to protect the results of scientific research. Upon completion of the course, graduates should acquire **the practical experience of**: – reading scientific texts in English; – transformation of sentences of scientific speech; – expression of semantic relations by means characteristic of the scientific style of the English language;

	– characteristic of the object, the phenomenon; – transfer of information from the reviewed text in English; – text design of the Introduction of a scientific text in English; – text design of the List of References in English; – text design of the Conclusion of a scientific text and text design of the presentation to protect the results of scientific research.
Course Outline	The target course is taught using a variety of teaching forms such as: – 64 practical experiences; – 15 individual homework assignments; – 4 tests. The course consists of 4 sections, which are given below. Section 1. Grammar of a scientific text Section 2. Ways of expressing semantic relations in a scientific text Section 3. Scientific text categories Section 4. Language Constructions of a Scientific Text Each section includes several practical experiences. The course ends with a credit test. *Learners' self-study* is arranged in a form of a grammar rules review and individual homework assignments. During the course of study, learners are expected to complete 15 individual homework assignments. *Individual homework assignment* is a set of tasks, aimed at consolidating the knowledge gained and the development of relevant skills. Tasks are built in order of increasing complexity: 1) compilation of individual sentences in accordance with the given communicative tasks, 2) analysis of fragments of a scientific text; 3) independent formulation of scientific text fragments. Individual tasks are performed and are submitted to the teacher for verification in electronic form. Tests are performed in writing during the conference week. Tests contain tasks aimed at checking and assessing the degree of formation of the ability to formulate and transform statements characteristic of a scientific text in English.
Prerequisites (ifavailable)	non
Course Structure	The content of the course covers 32 topics. Each topic is studied through practical experiences. **Section 1. Grammar of a scientific text** 1. Composition of the word. Parts of speech. 2. Sentence structure. 3. Basic sentence models. 4. Imperfect passive constructions. 5. Passive constructions of perfective aspect. 6. The use of active participles in the scientific text. 7. The use of passive participles in a scientific text. 8. The use of adverbial participles in the scientific text. **Section 2. Ways of expressing semantic relations in a scientific text** 1. The designation of time in the scientific text. 2. Description of the process. 3. Designation of the process. 4. The circumstantial characteristic of the process. 5. The use and evaluation process. 6. Designation of cause-effect relationships in a scientific text. 7. Expression of purpose and conditions in the scientific text. 8. Methods of designation of comparison, measure and degree. **Section 3. Scientific text categories** 1. The definition of the subject phenomenon. 2. Description of the properties of the object phenomenon. 3. Quantitative characteristic, characteristic by composition. 4. Evaluation in the scientific text. 5. Means of information transfer reviewed text. 6. Compositional

	orienting, delimiting and thinking-activating signals of a scientific text. 7. Methods of authorization in the scientific text. 8. Means of connections in the scientific text. **Section 4. Language Constructions of a Scientific Text** 1. Justification of the relevance of a subject research. 2. The definition of the object and subject of the research. 3. The formulation of the purpose and objectives of the research. 4. Review of literature. Making a list of references. 5. Targeting of the methodological basis of the study. 6. Targeting of the scientific novelty and significance of the research results. 7. Formulation of conclusions. 8. Presentation design. Answers to questions.
Facilities and Equipment	Classroom with multimedia equipment: Tomsk, Usova street, build. 19, room 437. LMS MOODLE
Grading Policy	In accordance with Rules and Regulations System of the current control and intermediate certification in TPU the total rating on discipline is put down at the end of a semester by results of estimation of actions of the current control in a semester. For receiving total assessment "Pass" during a semester the student has to gain not less than 55 points (Max score for current assessment is 100).
Course Policy	Attendance is strictly controlled. All classes are obligatory for attendance.
Teaching Aids and Resources	Compulsory Reading: 1. Russkij jazyk dlja inostrannyh uchashhihsja inzhenernogo profilja: leksika i grammatika rabochaja tetrad': uchebnoe posobie dlja vuzov. – SPb.: Zlatoust, 2014. Ch. 1. Leksika i slovoobrazovanie. Vyp. 2. Magistranty – 1 gruppa. – 130 s. http://catalog.lib.tpu.ru/catalogue/simple/document/RU%5CTPU%5Cbook%5C345561 2. Russkij jazyk dlja inostrannyh uchashhihsja inzhenernogo profilja: leksika i grammatika rabochaja tetrad': uchebnoe posobie dlja vuzov. – SPb.: Zlatoust, 2014. Ch. 2. Prostoe predlozhenie. Vyp. 2. Magistranty – 1 gruppa. – 104 s. http://catalog.lib.tpu.ru/catalogue/simple/document/RU%5CTPU%5Cbook%5C347602 3. Russkij jazyk dlja inostrannyh uchashhihsja inzhenernogo profilja: leksika i grammatika rabochaja tetrad'. – SPb.: Zlatoust, 2014. Ch. 3. Slozhnoe predlozhenie. Vyp. 2. Magistranty – 1 gruppa. – 76 s. http://catalog.lib.tpu.ru/catalogue/simple/document/RU%5CTPU%5Cbook%5C347608 4. Russkij jazyk dlja inostrannyh uchashhihsja inzhenernogo profilja: leksika i grammatika rabochaja tetrad'. – SPb.: Zlatoust, 2014. Ch. 4. Prichastnye i deeprichastnye oboroty. Vyp. 2. Magistranty – 1 gruppa. – 144 s. http://catalog.lib.tpu.ru/catalogue/simple/document/RU%5CTPU%5Cbook%5C347612 5. Russkij jazyk. Osnovnoj kurs: prakticheskaja grammatika dlja studentov-inostrancev estestvennyh i tehnicheskih special'nostej / T.M. Balyhina [i dr.]. – SPb.: Zlatoust, 2011. – 304 s. http://catalog.lib.tpu.ru/catalogue/simple/document/RU%5CTPU%5Cbook%5C249865 LMS MOODLE 1. Kazakova O.A. Pishem nauchnyj proekt Kazakova O.A. (https://stud.lms.tpu.ru/course/view.php?id=2224)
Instructor (-s)	Gubin E.I., gubine@tpu.ru