Ministry of Science and Higher Education of the Republic of Kazakhstan

D.Serikbayev EKTU

APPROVED:
Dean of ISoE:
Onalbaeva Z.S.
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ACADEMIC WRITING

Syllabus

Programme of Study: 8D05301 Technical physics, 8D05302 Technical physics
Course code: AP7201
Number of credits: 5
Cycle: BD
Component: UC

Ust-Kamenogorsk, 2026

The syllabus was developed at «ISoE» on the basis of the State General Educational Standard for Higher Education approved by the Minister for Education and Science of the Republic of Kazakhstan (Order No. 2 dated 20.07.2022), Rules for organizing educational process based on academic credit system approved by the Minister for Education and Science of the Republic of Kazakhstan (Order No. 152 dated 20.04.2011), Education Program, Work Curriculum, and the Catalog of Elective Courses.

Approved by the Quality Assurance Commission

Chairperson Date 26.08.2026 y. minutes №1	Mukhamedova R.O.
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Library employee	Drozdova O., Bakisheva M.Zh.
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1 COURSE DESCRIPTION. ITS PLACE IN THE ACADEMIC PROCESS

1.1 Course Overview

The discipline contributes to the further development of undergraduates' skills to express and substantiate their thoughts through a sufficiently convincing scientific text (articles, dissertations, reviews, monographs, annotations) when carrying out their own research projects and programs in their field of activity and to provide the results in written form in accordance with the legal norms of the Republic of Kazakhstan and the international academic community in Kazakh, Russian, and English.

1.2 Goals and Objectives of the Course

Goals of the course:

The purpose of the course is the formation of professional competence and the expansion of communicative competence related to analytical textual activity; the formation of PhD students' linguistic and pragmatic thinking skills, the ability to analyze expressive units of a language and competently select the right unit depending on the goals and conditions of communication.

Objectives of the course:

- to introduce the features of academic genres (annotations, abstracts, analytical reviews, as well as reports on a scientific event (conference)); to determine the main goals of analytical text processing; to teach how to analyze texts on professional topics.

1.3 Sustainable Development Goals

The goal of sustainable development of teaching the discipline «Academic writing» is to provide high – quality education by developing new approaches and methods for developing intellectual efforts of doctoral students during the educational process, stimulating critical and creative thinking.

1.4 Learning Outcomes

Learning outcomes are determined based on Dublin Descriptors for the appropriate educational level and are expressed through competencies.

Core competencies to be formed	Learning outcomes (units of core competencies)	
	Programme of study	Course
	PO3 - Analyze professional information resources when planning and processing the results of scientific research. (8D05302)	- the ability to independently carry out research activities in the relevant professional field using modern research methods and information and communication technologies - the ability to independently conduct scientific research and obtain scientific results that meet the established requirements for the content of a dissertation for the degree of Candidate of Sciences - The ability to critically evaluate
	PO6 - Have communication skills that allow you to effectively implement professional activities. (8D05301)	

Core competencies to be formed	Learning outcomes (units of core competencies)	
	Programme of study	Course
		scientific texts and research, highlighting the main arguments and counterarguments. The ability to analyze the quality and reliability of information sources, learn to critically evaluate scientific texts and research, highlighting the main arguments and counterarguments, as well as analyze the quality and reliability of information sources. - ability to write, apply, understand academic Pismo in the professional field - The ability to structure a scientific text in accordance with academic standards. Mastery of the technique of writing an introduction, a literature review, the main part and the conclusion of a scientific work.the ability to critically analyze and evaluate modern scientific achievements, generate new ideas in solving research and practical problems, including in interdisciplinary fields

1.5 Educational Technologies Used in the Course

1.5.1 Modern Educational Technologies

The following educational technologies are used during the training:
- Lecture-seminar-credit system
2. Research methods
3. Information and communication technologies

1.5.2 Adaptive Learning Technologies (Inclusive Education)

The following Learner-adaptive educational technologies can be used in education for persons with special needs:

- To successfully master the discipline, the following adaptive educational technologies can be used in teaching people with disabilities: - distance educational programs; - personality-oriented (for example, the use of an on - screen keyboard and alternative information input devices for students with musculoskeletal disorders; equipment of the classroom, where students with hearing impairment study with computer equipment, audio equipment, video equipment, electronic whiteboard); - subject-oriented (the process of goal formation, i.e. goals are formed through their results, expressed in the actions of students); - conducting additional individual consultations and classes with students, organized to assist in the development of educational material.

1.6 Prerequisites

- Foreign language (professional)

1.7 Postrequisites

1.8 Course Workload

Types of classes	hours
Lectures	15
Practical classes	30
SAWTG (Student Autonomous Work under Teacher Guidance)	75
SAW (Student autonomous work)	30
Final assessment method	Exam

2 COURSE CONTENT

2.1 Course Topics

№	Topic, content	Workload (hours)	Achievable CDIO results	The teaching method	Reading
	Lectures				
1	**Topic 1. The main genres of academic writing (abstract, review, analytical review, scientific report).**	1	Research is a methodical investigation to advance knowledge. Most doctoral students must undertake researches to gain a degree. University offer a specific course, namely academic writing (AW), to prepare doctoral students to undertake research. The achievable results of this course is to	Use the following interactive and active teaching methods using active forms of teaching: discussion, conversation, demonstration of slides or educational films, brainstorming, round table, colloquium: - Problem lecture; Lecture-press conference; Lecture with pre-planned errors (lecture-provocation); - Lecture-visualization;	1-12
2	**Topic 2. The concept of a scientific database.**	1			1-12
3	**Topic 3. Scientific databases: rules for making a search query, keyword search,**	1			1-12
4	**Topic 4. Domestic and foreign databases (elibrary, jstor, muse, RGB, VGBIL catalogs, Library of Congress).** Search through Amazon catalogs, domestic and foreign scientific publishers.	1			1-12
5	**Topic 5. The structure of the academic community: research centers, publishing houses, journals.** Orientation in the modern academic space.	1			1-12
6	**Topic 6. Bibliographic regulation description.** Domestic and foreign standard	1			1-12
7	**Topic 7. Abstract as a brief description of the content of a printed work or manuscript.** The structure of the annotation.	1			1-12
8	**Topic 8. The main goals and objectives of annotation.** Abstract in advertising, abstract in the scientific and technical information environment. The similarity and difference of annotations from genres close to it: an abstract, an instruction, a thesis, an informational article.	1			1-12

№	Topic, content	Workload (hours)	Achievable CDIO results	The teaching method	Reading
9	**Topic 9. Abstract as a special genre in the field of scientific information.** Types of abstracts. The structure of the abstract. The volume of abstracts of various types, the rules for the design of links.	1	enable doctoral students to learn and write about planning, analysing, designing and implementing research using academic writing tehnic and learn prepare research articles and reviews.	- Lecture-dialogue; - Interactive lecture;	1-12
10	**Topic 10. The main goals and objectives of abstracting.** Abstracting in the scientific and scientific-technical information environment, abstract journals in various fields of knowledge.	1			1-12
11	**Topic 11. Features of the analytical review.** Review as a special genre of scientific discourse. Types of reviews (for scientific research, scientific review of an art publication), the structure of the review.	1			1-12
12	**Topic 12. The main goals and objectives of the scientific review.** A review in the system of genres of scientific discourse.	1			1-12
13	**Topic 13. A message about a scientific event (conference, round table, discussion).**	1			1-12
14	**Topic 14. Features of editorial editing in a scientific publication.**	2			1-12
TOTAL				**15**	
	Practical classes				
1	**Topic 1. The concept of academic writing**	2	The achievable results of this course is to enable doctoral students to learn and write about planning, analysing, designing and implementing research using academic writing tehnic and learn prepare	Use the following interactive and active teaching methods using active forms of teaching: discussion, conversation, demonstration of slides or educational films, brainstorming, round table	1-12
2	**Topic 2. Distinctive features of the academic style**	2			1-12
3	**Topic 3. Structural elements of scientific work (introduction, main part, conclusion)**	2			1-12
4	**Topic 4. The logic and sequence of presentation of the material**	2			1-12
5	**Topic 5. Writing an introduction and setting research goals**	2			1-12
6	**Topic 6. Literature review**	2			1-12
7	**Topic 7. Research methods and their description**	2			1-12
8	**Topic 8. Data analysis and interpretation**	2			1-12
9	**Topic 9. Writing a conclusion**	2			1-12
10	**Topic 10. Citation styles and references**	2			1-12
11	**Topic 11. Ethics of academic writing and prevention of plagiarism**	2			1-12
12	**Topic 12. Text editing and proofreading**	2			1-12
13	**Topic 13. Preparing for publication**	2			1-12
14	**Topic 14. Public speaking and job protection**	4			1-12

№	Topic, content	Workload (hours)	Achievable CDIO results	The teaching method	Reading
	skills		research articles and reviews.		
TOTAL				30	

2.2 Tasks for Student Autonomous Work (SAW)

Topic	Content	Assessment method	Submission date, week	Workload (hours)	CDIO results
Analysis of a scientific article	Critical analysis of structure, evidence and conclusions	Current control	5	10	Planning, analysing, designing and implementing research using academic writing tehnic and learn prepare research articles and reviews.
Development of research methodology	Description of the methods and techniques used in the study	Current control	10	10	Planning, analysing, designing and implementing research using academic writing tehnic and learn prepare research articles and reviews.
Exploring different styles of academic writing	Comparative analysis of styles of writing scientific texts in different disciplines	Current control	15	10	Planning, analysing, designing and implementing research using academic writing tehnic and learn prepare research

Topic	Content	Assessment method	Submission date, week	Workload (hours)	CDIO results
					articles and reviews.
TOTAL				**30**	

2.3 Schedule of Course Task Submission

Types of tasks	Academic period, week														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Knowledge															
Implementation of practical work								+							+
Comprehension															
Implementation of practical work								+							+
Application															
Implementation of practical work								+							+
Analysis															
Implementation of practical work								+							+

3 ASSESSMENT OF STUDENT KNOWLEDGE

Teacher oversees various tasks related to ongoing assessment and determines students' current performance twice during each academic period. Ratings 1 and 2 are formulated based on the outcomes of this ongoing assessment. The student's learning achievements are assessed using a 100-point scale, and the final grades P1 and P2 are calculated as the average of their ongoing performance evaluations. The teacher evaluates the student's work throughout the academic period in alignment with the assignment submission schedule for the discipline. The assessment system may incorporate a mix of written and oral, group and individual formats.

Period	Type of work	Final Assessment
	Implementation of practical work	
	Implementation of practical work	
Final control	Exam	0-100

3.1 The evaluating policy of learning outcomes by work type

Type of work	**90-100**	**70-89**	**50-69**	**0-49**
	Excellent	**Good**	**Satisfactory**	**Unsatisfactory**
Practical work, exam	work demonstrates a high level of academic writing competence; the text is logically structured, coherent	work shows solid academic writing skills and clear structure; arguments are generally well	work demonstrates basic academic writing competence; structure and logic are partially developed; arguments	work does not meet doctoral-level academic writing requirements; lacks clear structure and

	and original; arguments are clear, critical and well-supported by recent high-quality sources; correct academic style is consistently applied; referencing and citation fully comply with international standards; language accuracy is near-native with no significant errors.	developed and supported by relevant sources; minor issues in coherence, style, or argumentation may be present; referencing is mostly correct with occasional formatting or consistency errors; language use is accurate with few non-critical mistakes.	are descriptive rather than critical; limited use or superficial analysis of sources; noticeable issues in academic style, coherence, and referencing; language errors are present but do not fully obscure meaning.	logical flow; arguments are weak or absent; inadequate or inappropriate use of sources; serious violations of academic style or referencing standards; frequent language errors significantly hinder comprehension.

The student's final grade in the course is calculated on a 100 point grading scale, it includes:
- 60% of current academic performance results;
- 40% of the result obtained on the exam.

The final grade is calculated by the formula:

$$И = 0{,}6\frac{P_1+P_2}{2} + 0{,}4Э \quad (1)$$

where P1, P2 are numerical values of Rating 1 and Rating 2 correspondingly;
Э is the numerical value of the examination grade.

Alphabetical grade	Numerical value	Points (%)	Traditional grade
A	4.0	95-100	Excellent
A-	3.67	90-94	
B+	3.33	85-89	Good
B	3.0	80-84	
B-	2.67	75-79	
C+	2.33	70-74	
C	2.0	65-69	Satisfactory
C-	1.67	60-64	
D+	1.33	55-59	
D	1.0	50-54	
FX	0.5	25-49	Unsatisfactory
F	0	0-24	

4 COURSE POLICY

Student is required to:
attendance of lectures and practical classes according to the schedule is mandatory,
- the presence of students in classes is checked at the beginning of classes. In case of late arrival, the student must enter the classroom silently and get involved in the work, and during the break explain to the teacher the reason for being late - two lateness to classes is equal to one missing class, - the work evaluated in points should be submitted within the established time frame. for late delivery of works, the number of points is reduced. Students who do not pass all the tasks are not allowed to take the exam, - students who have received an average rating of Rsr = (P1 +

P2)/2 less than 50% are not allowed to take the exam , - mobile phones must be turned off during classes, - the student must come to classes in business clothes.

5 RECOMMENDED READING

5.1 Key reading

1. Academic writing in scientific practice [Текст] : учеб.-метод. пособие для практ. и самостоят. работы магистрантов и докторантов спец. 6D070200 "Автоматизация и управление", 6D071200 "Машиностроение", 6D070900 "Металлургия", 6D072300"Техническая физика" / С. В. Плотников [et al.]. - Өскемен : ВКГТУ, 2016. - 175 с. - Библиогр.: 175 с. . - ISBN 978-601-208-445-0

2. Alontseva, D. L. Research organization and planning lecture course [Текст] : Tutoria / D. L. Alontseva ; Ministry of educanion and science of Republic of Kazakhstan, D. Serikbayev East Kazahstan State Technical University. - Ust-Kamenogorsk : EKSTU, 2022. - 118 p. - Библиогр.: с. 115. - ISBN 978-601-208-798-7

3. Bhatnagar Vishal7 Data Mining and Analysis in the Engineering Field [Текст] : учебник / Bhatnagar Vishal. - [S. l.] : IGI Global, 2014. - 405 p. - Библиогр.: с. 361. - ISBN 978-1-4666-6086-1

4. Sahanaya, Wendy. Preparation and Practice. Reading and Writing : academic module / W. Sahanaya, J. Lindeck, R. Stewart. - New York : [s. n.], 2006. - 172 с. - ISBN 0-19-554093-X

5. Writing a research paper : method. instructions for practice. classes / С. Д. Семенова. - Усть-Каменогорск : ВКГТУ, 2008.

5.2 Further reading

6.http://www.lib.ektu.kz/CGI/irbis64r_plus/cgiirbis_64_ft.exe?C21COM=F&I21DBN=POLN_FULLTEXT&P21DBN=POLN&Z21ID=&S21CNR=5,

7. http://www.iprbookshop.ru,
8. https://www.ektu.kz/researchlibrary/newarrival.aspx,
9. http://www.rmeb.kz/,
10. https://kazneb.kz/.
11. The Web of Knowledge: Web of Science (Clarivate) http://www.WebofKnowledge.com; http://www.isiwebofknowledge.com
12. Scopus - https://www.scopus.com/freelookup/form/author.uri.