



**Practical course of a foreign language of professional direction. Part 1  
(English)  
Working program of the academic discipline (Syllabus)**

<b>Details of the academic discipline</b>	
<b>Level of higher education</b>	<i>First (undergraduate)</i>
<b>Discipline</b>	14 Electrical engineering
<b>Specialty</b>	141 Power engineering, electrical engineering and electromechanics
<b>Educational program</b>	Electric machines and devices, Electric systems and networks, Electric stations, Electromechanical automation systems, electric drives and electric mobility, Electrotechnical devices and electrotechnological complexes, Non-traditional and renewable energy sources, Management, protection and automation of energy systems
<b>Discipline status</b>	Normative
<b>Form of education</b>	daytime
<b>Year of training, semester</b>	3rd year (5th, 6th semester)
<b>Scope of the discipline</b>	3 credits (ECTS). The total scope of the discipline is 90 hours: practical classes - 72 hours, independent work - 18 hours.
<b>Semester control/ control measures</b>	MKR (5th semester), credit (6th semester)
<b>Class schedule</b>	1 lesson per week according to the schedule <a href="http://rozklad.kpi.ua/">http://rozklad.kpi.ua/</a>
<b>Language of teaching</b>	english
<b>Information about the course leader / teachers</b>	Teachers of the department: KAMTS No. 1 - <a href="http://kamts1.kpi.ua/">http://kamts1.kpi.ua/</a> Coordinator : Art. teacher Tetyana Borysivna Maslova Contact phone number: 044 204 81 99 Email: <a href="mailto:tetyana.maslova@kpi.ua">tetyana.maslova@kpi.ua</a>
<b>Placement of the course</b>	The course is posted on the Sikorsky platform (at the invitation of the teacher): <a href="https://classroom.google.com/">https://classroom.google.com/</a> and on the website of the department <a href="http://kamts1.kpi.ua/">http://kamts1.kpi.ua/</a>

**Program of educational discipline**

**1. Description of the academic discipline, its purpose, subject of study and learning outcomes**

The discipline "Practical course of a foreign language of professional direction" belongs to the cycle of humanitarian and socio-economic training. The peculiarity of its study is its professionally oriented character and provision of interdisciplinary connections, which is reflected in the educational goals and content of the study.

**The goal** of the course is the formation of foreign language communicative competence at a level not lower than B2, which is the standard for training bachelors. At this level, students are able to communicate effectively in typical educational and professional situations in accordance with the norms and cultural traditions of specialists in a certain field.

This discipline is important for the study of future specialists as it provides them with the necessary level of knowledge, skills and abilities of foreign language professional communication and guarantees the effective use of English terminology during international cooperation, taking into account the peculiarities of communication within the needs of the relevant profession. The

discipline covers the basic needs of document management, business correspondence and industrial negotiations in a foreign language.

During the study of the discipline, students acquire **general competencies** :

- (K01) Ability to abstract thinking, analysis and synthesis;
- (K02) Ability to apply knowledge in practical situations;
- (K04) Ability to communicate in a foreign language;
- (K05) Ability to search, process and analyze information from various sources;
- (K06) Ability to identify, pose and solve problems;
- (K07) Ability to work in a team;
- (K08) Ability to work autonomously.

Acquired competences form the following **program learning outcomes for the acquirers** :

- PR10. Find the necessary information in scientific and technical literature, databases and other sources of information, evaluate its relevance and reliability.
- PR11. Communicate freely about professional problems in national and foreign languages orally and in writing, discuss the results of professional activity with specialists and non-specialists, argue one's position on debatable issues.
- PR14. Understand the principles of European democracy and respect for the rights of citizens, take them into account when making decisions.
- PR15. Understand and demonstrate good professional, social and emotional behavior, follow a healthy lifestyle.

## 2. Pre-requisites and post-requisites of the discipline (place in the structural and logical scheme of training according to the relevant educational program)

Prerequisites: the level of foreign language proficiency is not lower than B1+, which the student receives as a result of successful study of the discipline "Practical Foreign Language Course".

Post-requisites: achieving the B2 level of foreign language proficiency, which indicates the student's readiness to pass the EVI and continue studying under the master's training program.

## 3. Content of the academic discipline

### Thematic plan of the educational component 5th semester

Topic 1. Introduction into the course. Placement test.
Topic 2. Being an electrical engineer. Review of present tenses.
Topic 3. The visit of a foreign partner. Review of future forms.
Topic 4. Types of electric current. Review of past tenses.
Topic 5. Induction and inductance. Conditional clauses.
Topic 6. Three phase power. The Participle.
Topic 7. Hysteresis. Relative clauses.
Topic 8. Presentation of the research. Academic English.

### 6th semester

Topic 9. Recruitment and applying for a job. Gerund.
Topic 10. Motivation. Gerund vs. Infinitive.
Topic 11. Mains electricity. The Infinitive constructions.
Topic 1 2 . Electrical measurements. Modal verbs (request, ability)
Topic 1 3 . The Ammeter. Modal verbs (necessity, obligation)
Topic 14. The Voltmeter. Modal verbs (logical assumptions)
Topic 15. Meter Safety. N+N compounds
Topic 16. Health and Safety in the Workplace. British vs. American English.

#### 4. Educational materials and resources

##### Basic literature :

1. Mikhnenko, G.E., Rogoza, A.P. (2012). Professional English. Methodical instructions for practical classes for III-year students of the Faculty of Electrical Engineering and Automation. K.: NTUU "KPI".
2. Gore, S., Smith, DG (2007). Oxford English for Socializing. Oxford: Oxford University Press.
3. Grussendorf, M. (2007). English for presentations. Oxford: Oxford University Press.

##### Supporting literature:

1. Kyryk, V.V., Maslova, T.B. (2015). Electrical power networks and systems. Operation modes of open networks. education manual Kyiv: NTUU "KPI".
2. Simkova, I., Kozubska I. (2021). Workshop on academic foreign language writing (referencing and annotation) [Electronic resource]. KPI named after Igor Sikorsky
3. Clarke, S. (2008). Macmillan English Grammar in Context. Intermediate. Macmillan.
4. Dooley, J. & Evans, V. (2007). Grammarway 3. Express Publishing.
5. Ibbotson, M. (2008). Cambridge English for Engineering. Cambridge: CUP.
6. Lambert, V., Murray, E. (2003). Everyday technical English. Longman.
7. Williams, I. (2007). English for Science and Engineering. Thomson Heinle & Heinle ELT.

##### Online resources :

English for future engineers. <https://do.ipk.kpi.ua/course/view.php?id=199>  
<https://learnenglish.britishcouncil.org/en/english-emails>  
<https://www.teachingenglish.org.uk/resources/adults/english-business>  
<https://learnenglish.britishcouncil.org/business-english>  
<https://www.bbc.co.uk/learningenglish/>

#### Educational content

##### 5. Methods of mastering an educational discipline (educational component)

The general methodical approach to teaching the educational discipline "Practical course of a foreign language for professional direction" is defined as communicative-cognitive, activity-oriented, in the center of which is the student - the subject of learning. The methodology of teaching a foreign language combines the basic provisions of the communicative methodology aimed at the formation of foreign language communicative competence, in which communication is both the ultimate goal of language learning and a means of achieving it. Work in practical classes is aimed at acquiring knowledge, developing and improving skills and the ability to communicate in a foreign language environment, effective processing of foreign language sources of information, selection of necessary information, development of skills and abilities of critical analysis, development of skills and abilities of foreign language written communication.

No software	Topic	Auditory hours
<b>5th semester</b>		
1	Topic 1. Introduction into the course. Placement test Introduction to the course. Practical task: passing the entrance test.	2
2	Topic 2. 1 Being an electrical engineer. Practical task: performing exercises on the subject of the lesson.	2
3	Topic 2. 2 Being an electrical engineer. Practical task: performing exercises on the subject of the lesson.	2
4	Topic 3 . 1 The visit of a foreign partner. Review of future forms. Practical task: performing exercises on the subject of the lesson.	2
5	Topic 3 . 2 The visit of a foreign partner. Review of future forms.	2

	Practical task: performing exercises on the subject of the lesson.	
6	Topic 4.1 Types of electric current. Review of past tenses. Practical task: repetition of the studied material.	2
7	Topic 4.2 Types of electric current. Review of past tenses. Practical task: repetition of the studied material.	2
8	Revision. Progress test. Repetition of the studied material. Current testing.	2
9	Topic 5. 1 Induction and inductance. Conditional clauses. Practical task: repetition of the studied material.	2
10	Topic 5. 2 Induction and inductance. Conditional clauses. Practical task: repetition of the studied material.	2
11	Topic 6. 1 Three phase power. The Participle. Practical task: repetition of the studied material.	2
12	Topic 6. 2 Three phase power. The Participle. Practical task: repetition of the studied material.	2
13	Topic 7. 1 Hysteresis. Relative clauses. Practical task: repetition of the studied material.	2
14	Topic 7. 2 Hysteresis. Relative clauses. Practical task: repetition of the studied material.	2
15	Topic 8 . Presentation of the research. Academic English. Speeches with presentations on professional topics. Discussion and mutual evaluation of performances.	2
16	Revision for the Module test Repetition of the studied material. Preparation for modular control work.	2
17	Modular control work	2
18	Analysis of the results of modular control work. Summing up the results of the semester.	2
<b>6th semester</b>		
19	Topic 9. 1 Recruitment and applying for a job. Gerund . Practical task: diagnostic testing; performing exercises on the subject of the lesson.	2
20	Topic 9.2 . Recruitment and applying for a job. Gerund. Practical task: performing exercises on the subject of the lesson.	2
21	Topic 10 . 1 Motivation. Gerund vs. Infinitive. Practical task: performing exercises on the subject of the lesson.	2
22	Topic 10 . 2 Motivation. Gerund vs. Infinitive. Practical task: performing exercises on the subject of the lesson.	2
23	Topic 11 . 1 Mains electricity. The Infinitive constructions. Practical task: performing exercises on the subject of the lesson.	2
24	Topic 11 . 1 Mains electricity. The Infinitive constructions. Practical task: performing exercises on the subject of the lesson.	2
25	Revision. Progress test. Repetition of the studied material. Current testing.	2
26	Topic 12 . 1 Electrical measurements. Modal verbs (request, ability). Practical task: performing exercises on the subject of the lesson.	2
27	Topic 12 . 2 Electrical measurements. Modal verbs (request, ability). Practical task: performing exercises on the subject of the lesson.	2
28	Topic 13. The Ammeter. Modal verbs (necessity, obligation). Practical task: performing exercises on the subject of the lesson.	2
29	Topic 14 . 1 The Voltmeter. Modal verbs (logical assumptions). Practical task: performing exercises on the subject of the lesson.	2
30	Topic 14 . 2 The Voltmeter. Modal verbs (logical assumptions). Practical task: performing exercises on the subject of the lesson.	2

31	Topic 15 . 1 Meter Safety . N + N compounds. Practical task: performing exercises on the subject of the lesson.	2
32	Topic 15 . 2 meters Safety . N + N compounds. Practical task: performing exercises on the subject of the lesson.	2
33	Topic 16 Health and Safety in the Workplace. British vs. American English. Practical task: performing exercises on the subject of the lesson.	2
34	Revision for the Module test. Repetition of the studied material. Preparation for the final test.	2
35	Final test	2
36	Test	2
	<b>EVERYTHING</b>	<b>72</b>

## 6. Student's independent work

The applicant's independent work is the main means of assimilating educational material in the time free from educational classes and includes: preparation for practical classes, processing of additional material, preparation for a presentation, modular control work and assessment, performance of individual tasks. Individual tasks are one of the forms of organizing independent learning, which aims to deepen, generalize and consolidate the knowledge, abilities and skills that students acquire in the process of formal education. Typical individual tasks may include: performing tasks on the Sikorsky platform, competitive creative works, interactive posters and presentations, virtual trips, writing essays, individually performing exercises of various levels of difficulty, etc.

### Distribution of hours between classroom and independent work

Names of meaningful modules	Number of hours		
	In total	Including	
		Practical	SRS
<b>5th semester</b>			
Practical classes	41	34	7
Modular control work	4	2	2
<b>Total (1 semester)</b>	<b>45</b>	<b>36</b>	<b>9</b>
<b>6th semester</b>			
Practical classes	35	32	3
Final test	2	2	0
Test	8	2	6
<b>Total (2nd semester)</b>	<b>45</b>	<b>36</b>	<b>9</b>
<b>EVERYTHING</b>	<b>90</b>	<b>72</b>	<b>18</b>

## Policy and control

### 7. Policy of academic discipline (educational component)

Educational component "Practical foreign language course for professional direction. Part 1" has an exclusively practical nature, therefore, for successful learning, it is necessary to study materials for preparing for practical classes by topic, work with basic and additional literature.

All necessary educational materials are placed by the teacher in the Sikosky online environment, which is accessed by students studying this educational component.

Students receive up-to-date information on the organization of the educational process in the discipline through messages in the Electronic Campus or through the department's official channel in the Telegram messenger. During mixed or distance education, practical classes are held in the format of video conferences on the Zoom/Google Meet/Microsoft Teams/Blue Button/Discord platform.

The evaluation takes place according to the scheme of the agreed rating system. Expected learning outcomes, control measures and deadlines are announced to students at the first lesson.

Incentive points can be awarded for participation in scientific and practical conferences, Olympiads, in case of recognition of learning results acquired through informal and/or informal education.

Incentive points for participation in events of different levels can amount to no more than 10% of the total rating, i.e. no more than 10 points per year.

<b>Event Type/Level</b>	<b>International</b>	<b>All-Ukrainian</b>	<b>University</b>
scientific conference with a speech in a foreign language	5	4	2.5-0.5
a competition of creative works with a performance in a foreign language	5	4	2.5-0.5
foreign language olympiad	5	4	2.5-0.5

#### **Academic integrity**

Students must adhere to the Honor Code of KPI named after Igor Sikorskyi, principles of academic integrity and norms of ethical behavior: to show discipline, education, benevolence, honesty, responsibility.

The policy and principles of academic integrity are defined in Chapter 3 of the Code of Honor of the National Technical University of Ukraine "Ihor Sikorskyi Kyiv Polytechnic Institute". More details: <https://kpi.ua/code>

#### **Norms of ethical behavior**

Standards of ethical behavior of students and employees are defined in Chapter 2 of the Code of Honor of the National Technical University of Ukraine "Ihor Sikorskyi Kyiv Polytechnic Institute". More details: <https://kpi.ua/code>

## 8. Types of control and rating system for evaluating learning outcomes (RSO)

*Current control.* The teacher regularly enters the results of current monitoring in the "Current monitoring" module of the Electronic Campus in accordance with the Regulation on current, calendar and semester monitoring at KPI named after Igor Sikorsky. More details: [https://document.kpi.ua/2020\\_7-137](https://document.kpi.ua/2020_7-137). The student can familiarize himself with the results of the current control in his personal office in the Electronic Campus.

In the first lesson, students get acquainted with the rating system of evaluation (RSO) of the discipline, which is built on the basis of the Regulation on the system of evaluation of learning results [https://document.kpi.ua/files/2020\\_1-273.pdf](https://document.kpi.ua/files/2020_1-273.pdf)

In particular, the student's rating in the discipline consists of points that can be obtained for answers to practical classes during two semesters and for completing the MKR in the first semester and the final test in the second semester. In the first lesson of the fall semester, an entrance test is held, the assessment of which is not included in the student's rating. Diagnostic testing is conducted at the first class of the spring semester.

According to the Regulation on current, calendar and semester control of study results at KPI named after Igor Sikorskyi ( <https://osvita.kpi.ua/node/32> ) and the Regulations for conducting semester control in remote mode ( <https://osvita.kpi.ua/node/368> calendar control - is carried out on weeks 7-8 and 14-15 of each semester of study and is implemented by determining the level of compliance of the student's current success rating according to the criteria defined in the RSO.

No s/p	Event type	%	Weight score	Number	In total
1.	Work in practical classes (5th semester – 14 classes; 6th semester – 16 classes)	75%	2.5	30	75
2.	Speech with a presentation on a professional topic. Discussion and mutual evaluation of performances. (5th semester)	5%	5	1	5
3.	Modular control work (5th semester)	10%	10	1	10
4.	Final test (6th semester)	10%	10	1	10
<b>In total</b>					<b>100</b>

### Criteria for evaluating the mastery of the educational component

The maximum weighted point for work in a practical session is 2.5 points.

Rating	Weight score	Evaluation criteria
<b>Perfectly</b>	2.5	excellent work in the practical session, full and correct performance of educational tasks taking into account the studied material on the subject of the lesson (95%-100% of the volume of tasks and the number of correct answers); there are minor errors
<b>Very good</b>	2	active work in the practical session, complete and correct performance of educational tasks taking into account the studied material on the subject of the lesson at least (85%-94% of the volume of tasks and the number of correct answers); there are minor errors
<b>Good</b>	1.5	work in a practical class, partial performance of educational tasks taking into account the studied material on the subject of the class (75%-84% of the volume of tasks and the number of correct answers); there are errors or an answer with minor inaccuracies
<b>Of course</b>	1	satisfactory work in the practical session, partial completion of educational tasks taking into account the studied material on the

		subject of the lesson (65%-74% of the volume of tasks and the number of correct answers); existing errors or an answer with inaccuracies; if the applicant is not prepared for the practical lesson, but actively works on using the material of the practical lesson, the work will be evaluated according to this criterion
<b>Enough</b>	0.5	work at a practical session, performance of educational tasks taking into account the studied material on the subject of the lesson (60-64% of the volume of tasks and the number of correct answers); there are gross errors or answers with inaccuracies; if the applicant is not prepared for the practical lesson, but actively works on using the material of the practical lesson, the work will be evaluated according to this criterion
<b>Unsatisfactorily</b>	0	the applicant is not prepared for practical training; does not work during the practical session

### **Preparation and performance with a professional presentation**

In order to improve the skills and abilities of effective processing of authentic professional-oriented sources, the development and improvement of the skills and abilities of speaking in English, applicants are invited to conduct an analysis of English-language resources from the specialty, prepare a presentation and perform it in a practical session. The topics of the presentations are pre-agreed with the teacher and fixed by the winners.

**Evaluation of preparation and presentation** is based on the following criteria:

1. Content and structure (1 point):
  - Appropriateness of the topic: adherence to the main topic and task of the presentation.
  - The structure of the text and presentation: the presence of an introduction, a main part, a conclusion and references to the sources used, as well as whether their functions are fulfilled.
  - Logical organization: the presence of a clear and consistent logical distribution of ideas and arguments in the presentation.
  - Validity of arguments: assessment of the presence of arguments, examples, evidence that support the ideas of the presentation.
  
2. Speech competence (1 point):
  - Grammatical correctness: assessment of the presence of grammatical errors in the text.
  - Lexical selection: evaluation of the use of words and expressions of general and professional use.
  - Integrity and coherence of the text: assessment of the appropriateness of the chosen writing style, use of different types of sentences, connections between sentences and paragraphs.
  
3. Ability to speak in public (2 points):
  - Speech competence: assessment of grammatical correctness, lexical choice, integrity and coherence of speech; assessment of pronunciation, intonation, logical pauses and pace of speech.
  - Posture and gesticulation: the applicant's use of appropriate posture, gestures and facial expressions during the performance.
  - The ability to use presentation tools: assessment of the quality of slides, their content, graphic design and the relationship between text and graphics, the applicant's ability to present information on slides.
  
4. Answers to questions (1 point):



- Speech competence: assessment of grammatical correctness, lexical choice, integrity and coherence of the answer; assessment of pronunciation, intonation, logical pauses and pace of speech.
- Depth and clarity of answers: assessment of the applicant's ability to answer questions with sufficient depth and understanding of the topic, express thoughts clearly and succinctly.

*Calendar control (CC)* of students is carried out according to the value of the current rating. The condition for satisfactory attestation is the value of the student's current rating of at least 50% of the maximum possible at the time of the calendar control

Term KK		The maximum value of the current rating	The minimum value of the current rating (50%)
5th semester	8 week (first CC)	17.5	8.75
	14 week (second CC)	32.5	16.25
6th semester	8 week (third CC)	70	35
	14 week (fourth CC)	85	42.5

**The module test (MKR)** is conducted in order to check students' assimilation of the module materials in the penultimate lesson of the autumn semester, **the final test (PT)** - in the penultimate lesson of the spring semester. The purpose of conducting MKR and PT is to check the level of language skills of listening, reading, grammar, writing, and speaking.

The modular test/Final test consists of the following tasks:

- 1) Listening to the text (5 questions). The maximum number of points is 10, each question is worth 2 points.
- 2) Comprehension of the read text (10 questions). The maximum number of points is 20, each question is worth 2 points.
- 3) Using the language to test the student's lexical skills (10 questions). The maximum number of points is 10, each question is 1 point.
- 4) Use of language to test the student's grammatical skills (20 sentences). The maximum number of points is 20, each question is 1 point.
- 5) A written task, the purpose of which is to test the ability to write a coherent and logically complete text in a foreign language. The maximum number of points is 10.
- 6) Speaking: conversation on the proposed topics. Monologue speech: the maximum number of points is 10. Dialogic speech: the maximum number of points is 20.

To simplify the calculation, we enter a factor of 0.1. Thus, the maximum number of points for MKR/ PT: 100 points x 0.1 = 10 points.

It is not allowed to reassemble the modular control panel.

*Semester control* in the form of credit is conducted at the last lesson in the spring semester. At the penultimate class of the spring semester, the final calculation of the RD students' rating is made, incentive points for creative work are added.

Students who have scored a number of *RD points*  $\geq 60$  have the opportunity to:

- to receive a credit score (credit) by the so-called "automatic machine" in accordance with the scored rating. In this case, *RD points* and corresponding grades are entered into the credit and examination information;
- perform credit control work in order to increase the grade.

If the grade for the final test is higher than the "automatic" rating, the student receives a grade based on the results of the final test.

If the grade for the test is lower than the "automatic" rating, the "hard" RSO is applied - the student's previous rating is canceled and he receives a grade based on the results of the credit test.

Students who scored a rating of less than 60 points in the educational component during two semesters are required to complete a credit test.

#### **The structure of the credit control work :**

Test task #1 (listening).

The maximum number of points is 10, each question is 2 points.

Test task No. 2, No. 3 (reading).

The maximum number of points is 20, each question is worth 2 points.

Test task No. 4 (lexical knowledge).

The maximum number of points is 10, each question is 1 point.

Test task No. 5 (grammar knowledge).

The maximum number of points is 20, each question is 1 point.

Test task No. 6 (writing). The maximum number of points is 10.

Test task No. 7 (monological and dialogical speech).

The maximum number of points is 30.

#### **Rating scale:**

95 - 100 points "excellent"

85 - 94 points "very good"

75 - 84 points "good"

65 - 74 points "satisfactory"

60 - 64 points "enough"

Less than 60 points "unsatisfactory"

The transfer of the value of rating grades from the educational component for posting them to the credit report is carried out in accordance with the table:

Table of correspondence of rating points to grades on the university scale:

<b>Number of points</b>	<b>Rating</b>
100-95	Perfectly
94-85	Very good
84-75	Good
74-65	Satisfactorily
64-60	Enough
Less than 60	Unsatisfactorily

### **9. Additional information on the discipline**

Recognition of learning results obtained in non-formal/informal education, in particular an international foreign language certificate at level B2 and above (the list of recommended international tests for knowledge of English as a foreign language is given in Appendix 1 to Order No. 13 of the Ministry of Education and Culture of Ukraine dated 14.01.2016, see at the link <http://old.mon.gov.ua/files/normative/2016-03-04/5162/nmo-13.pdf>), regulated by the corresponding current " Regulations on recognition in KPI named after Igor Sikorskyi of learning outcomes acquired in non-formal/informal education" ( <https://osvita.kpi.ua/node/179> ).

For the validation of study results, by order of the dean of the faculty, a subject commission is created, which includes: the head of the department; a scientific and pedagogical worker responsible for the educational component offered for enrollment; a scientific and pedagogical employee of the department of the technical faculty/institute, as a rule, the curator of the applicant's academic group or his academic supervisor. The subject commission reviews the

submitted documents, analyzes their compliance with the syllabus (work program of the academic discipline/ educational component), conducts an interview with the applicant (if necessary) and makes one of the following decisions:

1. recognize the results obtained during non-formal education and count them as an assessment of the semester control in the relevant academic discipline/ educational component;
2. to recognize the results obtained during non-formal education and to count them in accordance with the rating evaluation system as current control of the relevant educational discipline/ educational component in the amount of no more than 15 points per academic year;
3. not to recognize the results obtained during non-formal/informal education;
4. appoint the date of the extra-ordinary control event, in accordance with the educational plan for the educational discipline/educational component that can be enrolled.

*Inclusive education* . The educational component can be taught to most students with special educational needs that do not allow them to complete tasks using personal computers, laptops and/or other technical means. Learn more about ensuring the inclusiveness of education at KPI named after Igor Sikorsky at the link <https://osvita.kpi.ua/node/172> .

**Working program of the academic discipline (syllabus):**

**Compiled** by T.B. Maslova, Senior Lecturer of the Department of the Technical School No. 1.

**Adopted by** the department of AMTS No. 1 (protocol No. 11 dated June 3, 2024)

**Agreed by** the Methodical Commission of the Faculty of Linguistics (protocol No. 11 of June 19 , 2024)

**Agreed by** the Methodical Commission of the Faculty of Electrical Power Engineering and Automation (protocol No. 10 dated June 16, 2024)