MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL AVIATION UNIVERSITY
Faculty of Linguistic and Social Communications
Ukrainian Language and Culture Department

AGREED
Acting Dean of FCCSE
_____ K. Nesterenko
«___»_____2021

APPROVED
Vice- Rector for Academics
_____ A. Polukhin
«___»_____2021

Quality Management System

COURSE TRAINING PROGRAM

on

"Scientific communications in professional activity"

Field of study: 12 «Information Technologies»
Specialty: 121 «Software engineering»
Educational Professional Program: «Software engineering», «Systems software»

Form of study	Semester	Total (hours / ECTS credits)	Lectures	Practicals	Laboratories	Self-study	HW/ CGP/C	TP/CPr	Form of semester control
Full-time	1	120/4,0	17	-	17	86	-	-	Graded test

Index HM– 4 – 121 – 1 / 21 – 3.2
HM – 4 – 121 – 2 / 21 – 3.3

The Course Training Program on "Scientific Communications in Professional Activity" is developed on the basis of Educational and Professional Programs "Software Engineering", "Software Systems", curricula and working curricula № HM – 4 – 121 – 1 / 21, HM – 4 – 121 – 2 / 21, PM – 4 – 121 – 1 / 21, PM – 4 – 121 – 2 / 21 training of applicants for higher education of the educational degree "Master" in the specialty 121 "Information Technology" and correspondent normative documents.

Developed by:
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Discussed and approved by the Ukrainian Language and Culture Department, Minutes № ___ of "____ "_____ 2021.

    Head of the Department _____ Lytvynska S.V.

                                         Vice Rector on International
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                                         _____ Zarubinska I.B.
                                         «___»_____2021

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Contents

INTRODUCTION

The CTP on the "Scientific communications in professional activity" is developed on the base of "Methodical instructions on development, forming of course educational and training program of disciplines" adopted on 29.04.2021 №249/order and 16.10.2019 №088/order and corresponding normative documents.

EXPLANATORY NOTES

1.1. Place, purpose, tasks of the discipline

The discipline is a discipline of the cycle of professional training, theoretical and applied basis of the set of knowledge and skills that form the management profile of a specialist in the field of information technology.

The purpose of the discipline is for masters to acquire theoretical information and practical skills in scientific communication in accordance with the latest requirements, to form students' terminological, communicative and other competencies, as well as to develop skills of compiling frequently used professional documents and producing quality scientific texts.

The objectives of the study the academic discipline are:
- to reveal the essence, purpose and tasks of scientific communication in the modern world;
- to find out the role of scientific schools in the process of becoming a scientist;
- to track the intellectual achievements of Ukrainians in the context of world achievements;
- to expand knowledge of the scientific style of modern Ukrainian literary language, its scope, varieties, genres;
- to improve knowledge of lexical and grammatical norms of modern Ukrainian literary language, which are important in scientific discourse;
- to form an understanding of the features of scientific communication on the Internet;
- to develop students' creative thinking;
- to cultivate respect for the Ukrainian literary language and linguistic traditions and to form a clear understanding of the role of the state language in professional activity;
- to provide relevant information on current challenges to science in Ukraine and projections on the future role and prospects of scientific communication in the world.

1.2. Learning outcomes that make it possible to achieve academic discipline

As a result of studying this discipline, students form:

- awareness of the importance of scientific communication in professional activities and intellectual innovations for the progress of Ukraine;

- idea of ways to encourage talented inventors in various fields at the national and international levels, which will stimulate their competitive spirit and creative search;

- understanding the features of scientific language, the importance of creating names to denote scientific concepts and the correct translation of terms;

- awareness of the importance of academic integrity for further professional career;

- skills to create your own academic text, in particular in accordance with the current SSTU to write and design term papers, dissertations and other scientific papers.

1.3. Competences that make it possible to acquire the discipline

CC-1. Ability to apply knowledge in practical situations.
CC-2. Ability to conduct research at the appropriate level.
CC-3. Ability to abstract thinking, analysis and synthesis.
CC-4. Ability to evaluate and ensure the quality of work performed.

CC-5. Ability to communicate with representatives of other professional groups of different levels (with experts from other fields of knowledge / types of economic activity).

PC2. Ability to develop, implement and analyze regulations, regulations, instructions and requirements of technical and organizational direction, as well as to integrate, analyze and use world best practices, standards in professional activities in the field of information security and / or cybersecurity.

PC7. Ability to research, develop and implement methods and measures to combat cyber incidents, to implement management, control and investigation procedures, as well as to provide recommendations for the prevention and analysis of cyber incidents in general.

PC9. Ability to analyze, develop and maintain a system of auditing and monitoring the effectiveness of information systems and technologies, operational business processes in the field of information security and / or cybersecurity of the organization as a whole.

PC10. Ability to conduct research and teaching activities, plan training, monitor and support work with staff, as well as make effective decisions on information security and / or cybersecurity.

PC11. Ability to carry out scientific and / or applied research in the field of information security and / or cybersecurity with the use of modern experimental and theoretical methods of process modeling, to form scientific and technical reporting.

1.4. Interdisciplinary connections

The course is based on knowledge of such disciplines as "Ukrainian Business Language", "History and Culture of Ukraine", "Fundamentals of Scientific Research", "Information Technology".

2. ACADEMIC CURRICULUM OF THE SUBJECT

2.1. Structure of the subject

The educational material of the discipline is structured according to the modular principle and consists of one training module № 1 "Scientific language as a communicative phenomenon", which is a logically completed, relatively independent, integral part of the curricula, the assimilation of which involves the carrying out of module control work and analysis of the results of its implementation.

2.2. Structure of the module and integrated requirements

Module № 1 « Scientific language as a communicative phenomenon »

Integrated module requirements №1:

Know:
   - subject, aims and objectives of scientific communication in professional activities;
   - the most important modern theories of scientific communication in professional activities;
   - intercultural features of scientific communication;
   - the role and importance of scientific communication in professional activities in today's globalized world.

Be able:
   - to formulate the purpose of scientific research in the context of the world scientific process, to realize its relevance and significance for the development of other branches of science;
   - to know the general methodological basis of scientific research;
   - to formulate working hypotheses and models of the researched problem;

- to formulate a scientific problem taking into account the state of its scientific development and modern scientific trends;

- to analyze scientific works, revealing debatable and little-studied questions;
- determine the principles and methods of research using interdisciplinary approaches;
- determine the information value of sources by comparative analysis with other sources;
- to conduct comprehensive research in the field of research and innovation;
- prepare a request for funding, reporting documentation.

Topic 1. Scientific communications in the knowledge society: current state and problems of development.

Introduction. The purpose and aim of the course. An interdisciplinary approach to the study of scientific communications in professional activity. The value of scientific knowledge and scientific communications in the 21st century. Current requirements for social and communicative activities of scientists. Basic rules of communication and practical success. Prestigious international and national awards in the field of science. Concept of scientific commerce: foreign experience. Intellectual achievements of Ukrainians in the context of European and world achievements. The role of startups in the modern world and in Ukraine. Scientific and informative discourse as a functionally specialized type of scientific and professional communication.

Topic 2. Conceptual apparatus of professionally oriented scientific communication.

Prerequisites for the formation of scientific communications in professional activity. Stages of development of ideas about scientific communications. Scientific and business communications: relationship of concepts. Basic concepts of scientific communications. Typology of scientific communications in professional activity. Functions of scientific communications. System of scientific communications. Hierarchical structure of scientific communications (verbal and non-verbal; direct, mediated and indirect; oral and written; formal and interpersonal). Factors of effectiveness of scientific communications. Characteristic features of scientific communications in Ukraine. The Ukrainian language as the language of modern science.

Topic 3. Academic text: meaning and meaningful content.

Scientific theory. Functions of scientific theory. Methodology of scientific knowledge. The subject content of new knowledge through the prism of the known, established. Implementation of the categories of objectivity, subjectivity and evaluability when presenting theoretical information.

Topic 4. Academic writing is a type of scientific (academic) communication.

Academic writing: integral and differentiated. Traditions of academic communication and international experience. The concept of academic writing, its categorical features, content and methods of presenting the material. Genres of academic writing: main and secondary.

Topic 5. Academic integrity as a component of the quality of higher education and scientific activity.

Concept of academic integrity and academic culture. The main types of violations of academic integrity, methods of their identification, differentiation of contradictory cases. Tools and procedures for checking academic works for plagiarism, legislative norms, requirements of internal regulations on academic integrity. Types of academic responsibility, the procedure for consideration of academic integrity. Academic culture in higher education institutions: experience of Ukrainian and foreign higher educational institutions.

Topic 6. Terminological competence in the structure of professional competence of a specialist.

Terms as presenters of scientific ideas, their characteristics, classification. Concept of terminological norm. Normalization and standardization of terms and their role in the development of science. The directions of the evolution of the metalanguage of scientific communications: a retrospective and the current state. The role of scientists in creating the metalanguage of science. Lexical and thermographic competence of the scientist. Problems of translating terms into Ukrainian, typical mistakes. The role of terminology in the process of intellectualization of the modern Ukrainian literary language. Branch terminological dictionaries as a type of linguistic and informational text.

Topic 7. Academic text as an object of editing. Linguistic principles of academic text editing.

Basic (pre-text / text) approaches to editing an academic text. Types of academic text editing. Editing and proofreading. Edit-abbreviation. Editing and finishing. Editing-processing. Editing of pre-text units (phrases and sentences) through the prism of semantic valence (combination). Selection of normative lexical-semantic and phraseological language tools for creating an academic text. Types of lexical and phraseological violations (unmotivated semantic modification of lexemes; unmotivated verbiage; unmotivated pleonasm; unmotivated tautology; unmotivated synonymy; unmotivated paronyms; unmotivated cross-linguistic homonymy; unmotivated tracing of lexemes; unmotivated borrowing; unmotivated semantic modification of a phrase; unmotivated tracing of a phrase, etc.).

Topic 8. Communicative competence in the qualification profile of a specialist.

Public speaking in business and professional communication. Concept of image in scientific communications in professional activity. The image of a scientist and the basics of self-presentation. Communicative competence of a scientist as a way to success: criteria of communicative competence. Assessments of communicative personality as a social phenomenon. Oratorical competence of a scientist. The essence and genres (report, speech, lecture) of public speeches. Stages of writing the speech text. Compositional and logical structure of a scientific report, performance. Means of influencing the listener. Development of skills to professionally lead a scientific discussion and work with the audience taking into account interactive methods. Mastery of creating and conducting presentations. Professional etiquette and communications. Compliance with ethical standards in business communication. Rules of business etiquette in a scientific environment. Culture of speech and business communication.

Topic 9. Scientific communications in professional activity - modern globalization challenges and prospects.

Globalization and its impact on scientific communication. Features of modern scientific communication on the Internet. Development trends and ways to solve the problems of scientific communications in Ukraine. Internet meetings, Internet conferences, their role in scientific communication in professional activity. The importance of websites and web forums in science. Electronic libraries in the system of virtual communications. The concept of a professional scientific-metric collection, scientific-metric databases. New interactive methods of virtual communications in the scientific and business environment. Infographics as a means of visual communication. The concept of a professional scientific-metric collection, scientific-metric databases. New interactive methods of virtual communications in the scientific and business environment. Infographics as a means of visual communication. The future of scientific communications in professional activity. The perspective of scientific communications in the context of civilizational challenges of the 21st century: forecasts of futurologists.

2.3. Training schedule of the subject

№	Topic	Academic Hours			
		Full Time			
		All	Lectures	Labaratories	Self-Study
1	2	**3**	4	5	6
1.1	Scientific communications in the knowledge society: current state and problems of development	**1 Semester**			
		13	2	2	9
1.2	Conceptual apparatus of professionally oriented scientific communication	13	2	2	9

1.3	Academic text: meaning and meaningful content	13	2	2	9
1.4	Academic writing is a type of scientific (academic) communication	13	2	2	9
1.5	Academic integrity as a component of the quality of higher education and scientific activity	13	2	2	9
1.6	Terminological competence in the structure of professional competence of a specialist	13	2	2	9
1.7	Academic text as an object of editing. Linguistic principles of academic text editing	13	2	2	9
1.8	Communicative competence in the qualification profile of a specialist	13	2	2	9
1.9	Scientific communications in professional activity - modern globalization challenges and prospects	10	1		9
1.10	Module test №1	6	-	1	5
Total for the module № 1		**120**	**17**	**17**	**86**
Total for the subject		**120**	**17**	**17**	**86**

2.4. List of questions to prepare for the exam or final test

The list of questions and the content of tasks for preparation for the exam are developed by the leading teacher of the department in accordance with the work program, approved at the meeting of the department and communicated to students.

3. BASIC CONCEPTS OF GUIDANCE ON THE SUBJECT

3.1. Learning methods

In the process of teaching the discipline, during practical classes the following methods are used: verbal (conversation, explanation, report), visual (presentation, illustration), practical (test tasks, cases, calculation and graphic tasks), control methods.

Methods of control: in order to identify the general level of training and the peculiarities of the assimilation of students' knowledge, the entrance control is carried out in the form of tests. During the semester, students' mastery of the elements of educational material is monitored to identify shortcomings and problems in the learning process, gaps in knowledge and further work to eliminate them. Forms of current control of knowledge and skills of full-time students are: interviews and testing - to check the mastery of theoretical material; protection of problem solving and problem situations - to control practical skills; performance of calculation and graphic tasks - for the development of analytical and calculation skills; control works on modules - for intermediate control of completeness, complexity of knowledge.

The following teaching methods are used during the study of the discipline: standard (lectures, practical classes with the use of active and interactive technologies, written or oral homework, independent work of students), teaching methods with the use of interactive forms of learning (group debates and projects). based on the case method, interactive lectures, business and role-playing games, trainings, work in small groups, discussion of essays prepared by students, reports, presentations, modeling, project method).

3.2. List of basic references

3.2.1. Босенко А. І. Науково-дослідна діяльність в галузі освіти: Навчально-методичний посібник / Босенко А. І., Вержиховська О. М., Гаврилов О. В., Гурський В. Т. – Кам'янець-Подільський: Медибори, 2015. – 160 с.

3.2.2. Компанцева Л. Ф. Соціальні комунікації для фахівців безпеки та оборони: підручник / Л. Ф. Компанцева. – К. : Нац. акад. СБУ, 2016. – Т. 1. – 267 с.

3.2.3. Таланчук П. Державотворчий потенціал української нації / П. М. Таланчук. – К. : Україна, 2015. – 322 с.

3.2.4. Козловська Л. С. Культура мови. Усна наукова комунікація / Козловська Л. С, Терещенко С. І. – К. : КНЕУ, 2011. – 170с.

3.2.5. Ліпінська А. В. Науково-технічна термінологія: Навч. посібник для дистанційного навчання/А. В. Ліпінська; За ред.. акад. М. І. Жалдака. – К. : Ун-т «Україна», 2007. – 219 с.

3.2.6. Селігей П. О. Світло і тіні наукового стилю / П. О. Селігей. – К. : Києво-Могилянська академія, 2016. – 628 с.

Additional literature

3.2.7. Бабич Н. Д. Культура фахового мовлення. Навчальний посібник / Н. Д. Бабич. – Чернівці : Книги-ХХІ, 2013. – 556 с.

3.2.8. Войналович О. Російсько-український словник наукової і технічної мови (термінологія процесових понять) / О. Войналович, В. Моргунюк. – К. : Вирій, Сталкер, 1997. – 256 с.

3.2.9. Головащук І. С. Російсько-український словник сталих словосполучень/ І. С. Головащук. – К., 2001.

3.2.10. Головащук С.І. Словник-довідник з українського літературного слововживання. – К. : Наук, думка, 2014. – 448 с. – (Словники України).

3.2.11. Кайку М. Візії: як наука змінить XXI сторіччя / МічіоКайку. – [переклад з англ.. Анжели Кам'янець]. – Л. : Літопис, 2004.– 544 с.

3.2.12. Караванський С. Практичний словник синонімів української мови / С. Караванський. – К., 2014. – 528 с.

3.2.13. Мацько Л. І. Культура української фахової мови: Навч. посіб./ Л.І. Мацько, Л. В. Кравець. – К. : ВЦ "Академія", 2007. – 360 с.

3.2.14. Українська мова. Енциклопедія / редкол. : В. М. Русанівський, О. О. Тараненко, М. П. Зяблюк. – К. : Українська енциклопедія, 2007. – 856 с.

3.2.15. Український правопис / НАН України, Інститут мовознавства імені О.О.Потебні ; Інститут української мови – стереотип. вид. – К. : Наукова думка, 2015. – 240 с.

3.2.16.Чередниченко О. І. Про мову і переклад/ О. І, Чередниченко. – К. : Либідь, 2007. – 248 с.

3.3. Internet resources

3.3.1. http://lcorp.ulif.org.ua/dictua/. – Український лінгвістичний портал. "Словники України" on-line.

3.3.2. http://linguist.univ.kiev.ua/WINS/pidruchn/index.htm. – Електронний підручник з сучасної української мови.

3.3.3. http://pravopys.net. – Український правопис.

4. RATING SYSTEM OF KNOWLEDGE AND SKILLS GRADE

4.1. Evaluation of certain types of student academic work done for the study of each module is carried out in accordance with table 4.1.

Table 4.1

Kind of Academic Work	Maximum Grade Values
Modules №1 „ Scientific language as a communicative phenomenon"	
Tasks at practical classes	32
Solving problems and problem situations (cases)	20
Test	10

Homework	8
For carrying out a module module test №1, a student must receive not less	42 points
Module test	30
Total for the Module	**100**
Total for the semester	**100**

The credit rating is determined (in points and on a national scale) based on the results of all types of educational work during the semester.

4.2. The completed certain types of educational work on the knowledge of theoretical material and practical tasks are credited to the student if he received a positive rating for them

4.3. The sum of the grades received by the student for certain types of completed educational work is the current module grade, which is entered into the Module Register.

4.4. The Total Semester Grade is entered into the Examination Register, into a student's record book and into a student's educational card in values, National Scale grades, and ECTS Scale grades, for example: ***92/Ex/A, 87/Good/B, 79/Good/C, 68/Sat/D, 65/Sat./E***, etc.

4.5. The Total Semester Grade of the subject that is taught for several semesters, is determined as the arithmetic average grade of the final semester of ratings in points (for this subject for the first and second semesters), followed transfer it to assess the national scale and ECTS scale.

The Total Grade of the subject is entered in the Diploma Supplement.

(Ф 03.02 – 01)

АРКУШ ПОШИРЕННЯ ДОКУМЕНТА

№ прим.	Куди передано (підрозділ)	Дата видачі	П.І.Б. отримувача	Підпис отримувача	Примітки

(Ф 03.02 – 02)

АРКУШ ОЗНАЙОМЛЕННЯ З ДОКУМЕНТОМ

№ пор.	Прізвище ім'я по-батькові	Підпис ознайомленої особи	Дата ознайом-лення	Примітки

(Ф 03.02 – 04)

АРКУШ РЕЄСТРАЦІЇ РЕВІЗІЇ

№ пор.	Прізвище ім'я по-батькові	Дата ревізії	Підпис	Висновок щодо адекватності

(Ф 03.02 – 03)

АРКУШ ОБЛІКУ ЗМІН

№ зміни	№ листа (сторінки)				Підпис особи, яка внесла зміну	Дата внесення зміни	Дата введення зміни
	Зміненого	Заміненого	Нового	Анульо-ваного			

(Ф 03.02 – 32)

УЗГОДЖЕННЯ ЗМІН

	Підпис	Ініціали, прізвище	Посада	Дата
Розробник				
Узгоджено				
Узгоджено				
Узгоджено				