

REQUIREMENTS FOR ARTICLE IN DIGEST OF SCIENTIFIC WORKS "SCIENTIFIC WORKS OF KHARKIV NATIONAL AIR FORCE UNIVERSITY"

Manuscripts must be submitted in electronic form (**Word-2003**), prepared in accordance with the requirements given below. Authors can use Template for convenience.

Manuscript Volume. No less than 5 full pages in Ukrainian or English.

Page Size. A4 (21x29,7 cm).

Margins. Left - 2,25 cm; right - 2,25 cm; top - 2 cm; bottom - 2,5 cm.

The Main Font of the Article. Times New Roman, 10 pt, line spacing (multiplier) - 1,1.

Authors' (co-authors') Initials and Surnames. Times New Roman, 12 pt, left alignment.

Authors' (co-authors') Affiliations. Times New Roman, 12 pt, left alignment, italics.

Title of the Paper. Arial, 12 pt, centre alignment, boldface. The title of the article must not be longer than 3 lines and must not have abbreviations.

Abstract in the language of the Paper. Times New Roman, 10 pt, justified, italics. The abstract should briefly state the structure of the paper, be informative and let the reader understand whether it is necessary to read the whole text of the manuscript. The abstract should have no less than 550 printed characters without blanks, including keywords.

Keywords. Times New Roman, 10 pt, justified, italics, 4–7 keywords and (or) word combinations, which are separated by commas and precisely reflect the subject field of the research.

The text of the Paper. Times New Roman, 10 pt, line spacing (multiplier) - 1,1; indentation of the first line is 0,75 cm. The text of the manuscript must be structured according to the following sections: introduction, statement of basic materials, conclusions.

Introduction

General Problem Statement. The present state of the problem, its connection with the important scientific and practical tasks, topicality and the ways of solutions should be given.

Analysis of the Recent Research and Publications. The famous theoretical and practical results that were obtained by other authors in this sphere with the references to their works should be indicated.

For example: "Methods which allow to consider ... are described in the works [1; 3-5]..."

Aim of the Research. The main idea of the paper, improvements, amendments or deepening of the known approaches should be given. The aim of the article is derived from the problem statement and the analysis of the last research and publications in the corresponding sphere.

Statement of basic materials

The main principles and results of the scientific research, personal ideas, regularities, connections, tendencies, the description of the experiment, the methods of obtaining the results, the analysis of the actual material, personal contribution to the achievement, realization of the main results etc. should be covered.

References to the used sources should be put in square brackets and include the indication of the number of the source, i.e. [1; 3-5], the names of the sources should be given at the end of the text (section - "References List").

Equations. MS Equation Editor or Math Type must be used for equations. It is not allowed to use Formula editor Word 2007 - 2016 for equations of graphical objects and tables. For setting up MS Equation Editor or Math Type in menu "Style" - "Define" the fields "Character Style" should be empty, except "Vector-Matrix" - "Bold". The size of equations should be set according to the Tab. 1.

Table 1

MS Equation or MathType Editors Settings of the Equations

Name of Menu	Name of Settings	Value of Settings
Size	Full	10 pt
	Subscript	8 pt
	Sub-Subscript	7 pt
	Symbol	14 pt
	Sub-symbol	10 pt

Source: developed by the author

For example. Effective echoing area is understood as a value which is determined with the help of the following equation:

$$\sigma = \lim_{R \rightarrow \infty} 4\pi R^2 \frac{|\vec{p}^{np} \cdot \vec{E}^{p03c}|^2}{|\vec{p}^0 \cdot \vec{E}^0|^2}, \quad (1)$$

where R – the distance from the object to the receiving aerial;

\vec{p}^{np} , \vec{p}^0 – unit vectors of receiving aerial and transmission antenna polarization respectively;

\vec{E}^{p03c} – the field that is scattered by the object towards the receiving aerial.

Symbols in the article (formulas, figures and tables) should be identical and made by using MS Equation or MathType Editors.

Pictures and tables should be placed after the first reference to them in the text. It is allowed to place big pictures, equations and tables in one column (no more than 16,5 cm).

Figures and tables should contain information about the source from where they were taken. The following options are possible (Fig. 1 and Tab. 2):

- developed by the author (s);
- developed by the author (s) based on the data [source number with indication of page number];
- [reference number indicating the page number].

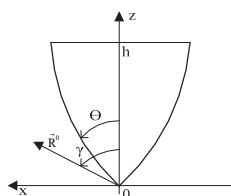


Fig. 1. Figure Caption

Source: developed by the authors based on the data [2, p. 8]

Table 2

Title of the table

Interval	1	2
Parameter	180	168

Source: [1, p. 5].

Figures should have a caption (in the middle) Times New Roman, 10 pt. The tables should have a title Times New Roman, 10 pt.

Conclusions

Conclusions should have brief summary of the results of the scientific problem (stated task) solutions, that were obtained in the process of analysis of the chosen material, estimation and generalization. It is necessary to emphasize independence, novelty, theoretical and (or) applied significance paying attention to the quantitative indicators of the obtained results.

The attention is paid to the introduction of the new facts, results, recommendations, and regularities to scientific sphere or clarification of the known facts that are not investigated enough. The information about authenticity and novelty of the results, which were obtained during the scientific research and which served as the basis of new theoretical approaches, regularities and determined ways of their application for specific practical needs should be indicated.

Reference List

The reference list should include not less than 12 sources, for review articles at least 20 sources. Herewith:

- not less than 80% of sources should have DOI (Digital Object Identifier System). They should be given at the end of the description, for example <https://doi.org/10.30748/nitps.2017.26.01>;
- not less than 50% of sources, which are taken into account by international scientometric databases SciVerse Scopus and Web of Science Core Collection;
- self-citation of the authors in the list of references should not exceed 15 percent.

The author must guarantee the validity of the mentioned sources and, if necessary, to provide them to the editorial board. Reference list can not include:

- textbooks, unofficial sites and forums;
- more than 30% of sources for materials of scientific conferences (seminars) and dissertations. It is most advisable to use other scientific works of these authors.

References to sources in the text of the article should be given in square brackets and separated by semicolons, for example [4, 7], [3–5]. The reference list should be formatted according to the according to the State Standards of Ukraine (ДСТУ) 8302:2015 “Bibliographic references: general statements and compilation rules”.

Information about the authors

Information about the authors should contain:

- scientific degree, academic title, full name;
- position, affiliation;
- ORCID ID.

Abstracts

The language and volume of abstract that is presented at the end of the manuscript are determined depending on the language of the main text of the manuscript:

- if the main language of the paper is Ukrainian abstract in English should be extended and have no less than 1800 printed characters including keywords;
- if the main language of the paper is English, abstract in Ukrainian should be extended and have no less than 1800 printed characters including keywords.

Abstract should cover:

- subject, topic, aim of the research;
- research methods;
- results of the research;
- conclusions and scope of research results.

Requirements for the authors:

- ensure that results of research contained in the manuscript compose independent and original work;
- submit the original manuscript, that has not been published in other journals and publications;
- provide reliable results of the conducted research;
- recognize the contribution of all persons who influenced the research or helped to define the nature of the scientific work presented in the article;
- in case of using the work fragments by other's or borrowing other author's materials, the authors are required to provide complete bibliographic references with the obligatory indication of the author and primary source. Submitted materials will not be returned to the author.

External peer-reviewing

External peer-reviewing is conducted purposely for critical evaluation of manuscripts that are published by authors who are not the members of editorial staff. Editorial staff forwards published research articles to the external review which is underway anonymous both for authors and reviewers.