Master's Degree Thesis Provision

1. General Provision

1. The present Master's Degree Thesis Provision (further – Provision) is developed according to the Law on Education of the Republic of Kazakhstan, the Law on Science of the Republic of Kazakhstan, the State obligatory standard of postgraduate education approved by the resolution of the government of the Republic of Kazakhstan on August 23, 2012 No. 1080, the orders and regulations of the Ministry of Education and Science of the Republic of Kazakhstan.

2. Policy is introduced instead of "Master's Degree Thesis Provision" approved by protocol No. 9 dated 09.06.2006 at the University scientific- methodical Council meeting and "Requirements to the final Master program examinations" approved by protocol No. 3 dated 28.01.2010 at the University scientific- methodical Council meeting.

3. The provision defines obligatory requirements to thesis structure, contents and preparation implemented by the students of the professional and educational Master's Degree programs of at al-Farabi Kazakh National University.

4. Master's Degree thesis is the final qualification scientific work which summarizes the results of the independent research on one of the topical problems in the certain specialty of the corresponding branch of science. This research is carried out by the master student. It has internal unity and reflects the process and results of developing the theme chosen.

5. Master's Degree thesis is the result of the research and experimental Master student's work which he/she carried out for the whole period of training. Defense of the Master's Degree thesis is the final stage of the Master student's training.

6. The purpose of the Master Degree thesis is to demonstrate the level of Master student's research qualification, the skill to independently conduct scientific search, to check the skill to solve specific scientific and practical problems, and the knowledge of the most general methods and the techniques for their solution.

7. The Master Degree's theses is the basis for awarding the master's degree to the graduate on corresponding specialty. It should show the graduate readiness of the master program's graduate as a researcher who is able to create and solve scientific and practical problems.

8. Master Degree's theses should be pre-defended and checked by the graduating chair for plagiarism before being submitted to defense In case of deliberate plagiarism in Master Degree's thesis, the master student is not admitted to the defense of the thesis and will be expelled from university in the established order.

9. The order of the master's degree thesis's order is defined by the regulations of the Ministry of Education and Science of the Republic of Kazakhstan and "Provisions of the final master and PhD program examination" at al-Farabi Kazakh National University .

2. Requirements to the master degree's content

10. The theme of the master's degree thesis is discussed at the meeting of the graduating chair, by the Faculty Academic council and approved by the university order within the first two months of training. There is also a simultaneous appointment of the scientific supervisor for the master student. The scientific supervisor supervises master student's research and experimental work. The master student also conducts his/her master research under the guidance of the scientific supervisor. If the master research is cross-disciplinary scientific consultants and co- supervisors for the master research can be appointed.

11. The list of master research themes offered by the graduating chair should be updated annually not less, than 30%, and provide the opportunity for dissertation research preparation within the

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scientific projects carried out by the graduating chair and the university by the programs of fundamental and applied research to master students.

12. The master student is given the right to choose the theme of the master research and the right to propose one's own theme of the master research with the necessary substantiation of its viability.

13. Research work of the educational professional master degree's programs for the scientific and pedagogical areas should:

- correspond to the main problems of the specialty on which the master degree's thesis is defended;

- be topical, contain scientific novelty and practical importance;

- be based on modern theoretical and technological achievements of science and practice;

- be carried out using modern methods of scientific research;

- contain research (methodical, practical) sections on the basic points being defended;

- be based on the advanced international experience in the specific field of knowledge.

14. Experimental and research work carried out by the students of professional educational master degree's programs of the field-specific direction should:

- correspond to the main problems of the specialty on which the master degree's thesis is defended;
- be based on modern achievements of science, technology and manufacture, contain specific practical recommendations, independent solutions of administrative and other tasks;

- be carried out using the advanced information technologies;

- contain experimental and research (methodical, practical) sections on the basic points being defended;

15. As a result of the performance of the research / experimental work and the preparation of the master's degree thesis the graduate should acquire the following key competences: he or she should – be able to gain, process and use information for the professional purposes;

- posses the advanced highly specialized theoretical knowledge and practical which are the basis for the implementation of scientific research and original approach to the solution of professional tasks;

- know methodology and the technique of the processing of empirical (research) material and be able to use them in scientific practical activities;

- be able to comprehend and use critically professional knowledge, including of an interdisciplinary character.

- posses the specialized skills for solving the problems necessary for scientific research and/or innovations to create new knowledge and methods and integrate knowledge from various fields;

- possess communicative skills to state one's thoughts in a logical and reasonable way, be able to work in the team, be able to take the responsibility for the contribution to professional knowledge and professional activity;

- possess the skill to solve specific problems from field of the chosen specialization in an original way;

– be able to control and transform professional situations which are of a difficult and unpredictable character, and require new strategic approaches.

11. The master thesis should correspond to the following requirements:

- the should contain research or solve the topical problems in the specific field of science;

- master degree's thesis should determine important scientific problems and solve them;

- solutions should be scientifically- based and reliable and have internal unity;

- master thesis should be written individually.

12. The content of the master thesis is an essentially new material including the description of new factors, phenomena, regularities or the summarization of earlier known points from other scientific views or in a new aspect.

13. The content of the master degree's thesis reflects initial prerequisites of scientific research, its course and the results obtained. The master' degree thesis has the features peculiar of dissertation

work in general. The content of the thesis should have convincing arguments in favor of the chosen concept. The viewpoints which contradict it should be subjected to the comprehensive analysis and critical evaluation. Debatable and polemic materials are thesis elements.

14. The content of the master' degree thesis should include the following points:

- the substantiation of the topicality, theoretical and practical importance of the research theme;
- the analysis of the problem statement on the direction of research;
- statement of the purpose and specific objectives of the research;
- definition of object and subject of the research;
- choice of methodology and methods of the research;
- description of stages and process of the research;
- a formulation of conclusions and an assessment of the results obtained;
- determination of validity, reliability and scientific novelty of the results obtained.

15. The results of the master's degree thesis submitted for the defense should be published. The minimum number of the publications is one scientific article. Pre-patents (patents), reports, theses of the international, republican and regional conferences, analytical reviews can be equated to publications.

Перевод Шаяхмет

3. Structure of a Master degree thesis and formatting requirements:

16. Structural elements of a Master degree thesis:

- title page (Appendix A);
- a one-page abstract in three languages (Kazakh, Russian, and English);
- table of contents;
- normative references;
- definitions;
- symbols and abbreviations (if necessary);
- introduction;
- main text consisting of sections, subsections, and paragraphs (the latter if necessary);
- conclusion;
- list of references;
- appendices (if necessary).

17. Title page is the first thesis page and serves as a source of information for processing and searching the document. The title page should include the following:

- the name of the institution where the thesis was fulfilled;

- code and name of the field of specialization;
- an indication that the thesis text is an original manuscript, completed by the candidate;
- the title of the thesis;
- surname and initials of a candidate;
- surname and initials of the thesis advisor;
- an indication of the city and year, where and when the thesis was completed.

Title page should be designed pursuant to Appendix 1. The personal signatures of the candidate, his/her thesis advisor, and the head of the department should be on the title page. The title page should be included in the total pagination of a thesis. The title page itself should not be numbered.

23. The abstract should include data on the scope of the research conducted, the quantity of illustrative materials, the main ideas and research findings, the degree of novelty and the practical significance of the results. The length of the abstract should not exceed one page.

24. The table of contents should include an introduction, consecutive numbers and titles of all sections, subsections, paragraphs, conclusion, references, and titles of appendices. The table of contents should also indicate the page numbers on which these thesis elements can be found.

25. The structural element "Normative references" contains a list of standards, to which have been referred to in the thesis text. The list of referring standards begins with the words "In the present thesis references to the following standards have been used". The list includes an indication to the standards and their titles in ascending order of registration numbers.

26. The structural element "Definitions" contains definitions required to clarify or to determine terminology to be used in the thesis. The list of definitions begins with the words "In the present thesis the following terminology with respective definitions are applied."

27. The structural element "Symbols and abbreviations" contains a list of symbols and abbreviations used in the thesis. Recording of symbols and abbreviations should be provided as they are mentioned in the thesis text or in alphabetical order, with necessary decoding and clarification. Definitions, symbols, and abbreviations may be stated in a common structural element "Definitions, symbols, and abbreviations".

28. The structural element "Introduction" should include evaluation of the current state of the problem being addressed, the base and initial data for development of the theme, the rationale for conducting this research (experimental research). The Introduction should reflect the relevance and novelty, theoretical and practical significance of the theme; object and subject of the research, the choice of methodology and techniques of research should be determined, as well as the purpose and specific objectives of the study.

29. The main part of the thesis should contain the rationale for the preferred area of research, problemsolving methods and their comparative evaluation, description of selected general methodology of the research (experimental research), new materials, either a summary of previously known statements from different research positions or a new prospective aspect. This part should contain a summary and evaluation of the research results, including an evaluation of the completeness of the problem solution and comparison with similar results in domestic and foreign works.

30. The conclusion of a thesis has to contain:

- a brief summary of the research results;
- an evaluation of the completeness of the problem solution;
- the development of recommendations and input data for specific application of the results;
- an evaluation of the technical and economic efficiency of implementation.

31. The structural element "List of references" should contain information on the sources used in writing of the thesis. The list of references should be compiled pursuant to Appendix B. In the preparation of the Master's thesis it is recommended to use modern scholarly articles on the research topic, which have been published in leading international scholarly journals, in the amount of not less than 30% of the total number of sources used.

32. It is recommended to include materials related to the completed thesis in the structural element "Appendices".

33. Master degfee theses may be done in either the Kazakh or Russian languages.

34. Technical requirements for the design of the Master degree thesis should meet the criteria set for theses (Appendices β - β). It is permitted to correct typos, misprints, and graphic inaccuracies found in the preparation of the thesis, by erasure or white paint. The corrected text or graphics may be added in either handwritten black ink or in typed form. Names, company names, product names, and other proper nouns in the thesis should be written in the original language. The proper names may be transliterated and the organization names may be translated into the thesis language with the addition (at the first mention) of the original name.

35. The Master's thesis should be typed on the computer on one side of sheets of A4 white paper. The thesis should be single-spaced, in size 14 Times New Roman font. The left margins should be 30 mm, the right – 10 mm, the top – 15 mm, and the bottom – 20 mm.

The recommended length of a Master's thesis is 60-80 pages for the natural sciences and technical specialties, while for social and humanitarian specialties the thesis length may reach 100-120 pages. Appendices are not included in the specified above thesis length.

APPENDIX A

Al – Farabi Kazakh National University.

Faculty of Philosophy and Political Science

MAGISTERACY

Department of Social Philosophy

MASTER DEGREE DISSERTATION

The philosophy of pragmatism

as the basic phenomenon of the American culture of the twentieth century

Implementer _____

_____" of _____2011

/ signature / /full name/

Supervisor_____

/ insignia / / signature //full name/

"____" Of _____201_

Admitted to the defense of dissertation:

Head of Department

/ insignia / / signature //full name/

"_____", _____201_

ALMATY 201_

APPENDIX B

Construction of the thesis and pagination

The structural elements of the thesis, "Table of content", "Normative references "," Definitions "," Symbols and abbreviations "," Introduction "," Conclusion ""List of references" are the titles of the structural elements of the thesis.

The main part of the thesis should be divided into sections, subsections and paragraphs.

Paragraphs, if necessary, can be divided into sub-paragraphs. When dividing the text of the thesis into paragraphs and subparagraphs every item needs to have a completed idea.

Sections, subsections should have headings. Paragraphs do not usually have headings. The headings should clearly and concisely reflect the content of sections, subsections.

Headings of sections, subsections and paragraphs should be printed with the indention with capital letter, without full stop at the end, without underlining. If the heading is composed of two sentences, they should be separated by the full stop.

Pages of the thesis should be sequentially numbered in Arabic numerals throughout the whole text of the thesis. The page number is put down in the bottom center of the sheet without a dot.

The title page is included in the total page numbering. The page number on the title page is not put down. Illustrations and tables located on separate sheets are included in the total pagination of the thesis.

Illustrations, tables located on the sheet of format A3is counted as one page.

Sections of the thesis should have serial numbers within the whole work, using Arabic numerals without dot and recorded with indentation. Subsections should have the numbering within each section. The number of subsection consists of the section and subsection numbers, separated by a dot. At the end of sub-section number a dot is not put down.

Sections as well as subsections may consist of one or more paragraphs.

If the thesis does not have sub-sections, the numbering of the paragraphs in it should be within each section, and the paragraph number should consist of the section and item number separated by a period. At the end of the paragraph number a dot is not put down.

Example - The numbering of the paragraphs of the first and second sections of the dissertation

- 1. Types and basic dimensions
- 1.1
- 1.2
- 1.3

2Technical specifications

2.1

2.2

2.3

If the thesis has subsections, the numbering of the paragraphs should be within the sub-section and the subitem number should consist of the section, subsection and paragraphs numbers separated by dots. Example - The numbering of the paragraphs of the first subsection of the third section of the dissertation 3Methods of tests

3.1 Apparatus, materials and reagents

3.1.1

3.1.2

If a section is composed of a single sub-section, the sub-section is not numbered. If A subsection consists of one paragraph, the paragraph is not numbered.

If the text is divided only on the paragraphs they are numbered with ordinal numbers within the whole thesis. Paragraphs, if necessary, can be divided down into sub-paragraphs, which should have serial numbering within each paragraph, for example: 4.2.1.1, 4.2.1.2, etc.

Within the paragraphs or sub-paragraphs listing can be shown. Before each listing a hyphen should be put down or, if necessary, the reference in the text to one of the following, lowercase letters (except e, 3, $\breve{\mu}$, 0, 4, b, \overline{b} , \overline{b} , \overline{b}), after which put a brace.

For further details of listing Arabic numerals needs to be used, after which a brace is put down and recording starts with the indentation, as shown in the example.

Example

- a)_____
- b) _____
- 1)_____
- 2) _____ c) ____

If the dissertation consists of two or more parts, each part should have its serial number. The number of each part should have Arabic numeral on the front page below the indication of the type of dissertation, such as "Part 2".

Each structural element of the thesis should start with a new sheet(page).

Pagination of the thesis and appendices that are part of the thesis should be sequential.

Making illustrations

Illustrations (drawings, maps, charts, diagrams, computer printouts, graphs, photographs) should be placed in the thesis immediately after the text where they are mentioned for the first time or on the next page.

Illustrations can be computer printed, including colored. All the illustrations should have references in the dissertation.

Drawings, graphs, charts, diagrams, schemes, illustrations in the thesis should comply with state standards of the Unified System of design documentation (USDD).

Drawings, graphs, diagrams, charts are allowed to be printed on computer.

Photographs smaller than format A4 should be pasted on standard sheets of white paper.

Illustrations except the illustration in appendices should be numbered sequentially in Arabic numerals. If there is a single picture, it is designated as «Figure 1", the word "Figure" and its name should be in the middle of the line.

It is allowed to number illustrations within the section. In this case, the number of the illustration consists of the section number and the serial number of illustration, separated by a dot. For example, "Figure 1.1"

Illustrations, if necessary, may have the name and the explanatory data(caption text). The word "Figure" and its name are placed after explanatory data as follows: Figure 1 - Details of the device.

Illustrations of each appendix have a separate numbering in Arabic by adding the appendix note before the number. For example, Figure A3

The illustrations are made in accordance with Appendix G.

When referring to illustrations, it should be written "... in accordance with Figure 2» in sequential numbering and "... in accordance with Figure 1.2," in numbering within the section.

Тулеубаева Tables design

Tables are used for clarity and ease of data comparison. The title of the table should reflect its content and be precise and concise. The title of the table should be placed above the table on the left, no indentation within one line with its number written with a dash.

When transferring part of the table, the title of the table should be placed only above the first part of the table, no lower horizontal line margining the table should be drawn.

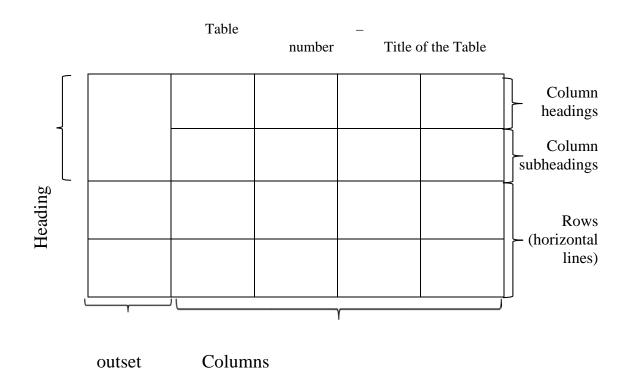
The table should be placed in the thesis immediately after the text where mentioned for the first time or on the next page. All tables should be referenced in the thesis. When reference is necessary, the word "Table" with its number should be written.

The table with a large number of lines may be transferred to another sheet (page). When transferring part of the table to another sheet (page), the word "Table" and its number should be indicated once on the left on the first part of the table, the other parts should contain the word "to be continued" with the number of the table, for example: "Table 1.To be continued." When transferring the table to another sheet (page) the title should be placed only above the first part.

Tables with lots of columns may be divided into parts and placed one part under the other within the same page. If the rows and columns of the table are beyond the page size, then in the first case each part of the table should repeat the heading, in the second case –outset columns.

If the text repeated in different lines of the column of the tableconsists of a single word, then after the first mentioning it can be replaced by the quotation marks; if it consists of two or more words, then at the first repetition it is replaced by the word"the same" and then with quotation marks. No quotation marks instead of repeated numbers, signs, and marks, mathematical and chemical symbols should be used. Ifnumerical or other data in any row of the table are not given, then a dash should be put.

Numerical data are usually given in the form of tables. The example of the table is shown in Figure 1.



Tables, except tables in Appendices should be sequentially numbered with Arabic numerals.

It is allowed to number tables within one section. In this case the number of the table consists of the section number and serial number of the table, separated by a dot. Tables in each Appendix have a separate numbering with Arabic numerals with the Appendix designation before the number.

If there is a single table in a document, it should be marked as "Table 1" or "Table B.1" if it is mentioned in the Appendix.

Headings of columns and lines of the table should be written with a capital letter in singular, and the subheadings of the tables – with a lowercase letter, if they comprise one sentence with the heading; or with a capital letter if they have an independent meaning. There are no dots at the end of headings and sub-headings of the tables.

Tables are limited by lines in the left, right and bottom. It is allowed to use in the table the smaller font size than in the text.

It is not allowed to divide headings and subheadings in the outsetand columns with diagonal lines.

Horizontal and vertical lines designating the rows of the table may be omitted if their absence does not imply difficulties in the use of the table.

Headlines of the columns are usually recorded in parallel to the tablerows. If necessary, they may be arranged in perpendicular to the column headings. The heading of the table should be separated from the rest of the table with a line.

The example of tables design in the thesis is given in Appendix D.

Design of notes, formulas, equations, references, list of definitions, symbols and abbreviations, list of references and Appendices

The word "Note" should be typed with a capital letter with an indentation and no underlining.

Notes are given in the thesis if clarification or reference data to the content of the text, tables or graphic material are necessary. Notes should not contain any requirements.

Notes should be placed directly after the text, graphical material or in the table to which these notes are given. If there is a single note, then a dash after the word "Note"should be put and the note with a capital letter should be typed. A single note is not numbered. Several notes are numbered in sequence with Arabic numeralswithout dots. The Note to the table is placed at the end of the table above the line indicating the end of the table.

Example

Note –Do not type subscripts.

Several notes are numbered in sequence with Arabic numerals

Example

Notes

1 No subscripts should be typed;

2 The documents should be certified by a notary;

3 Should be approved by the head of the organization.

Formulas and equations should be outlined from the text in a separate line. Above and below each formula or equation there should be at least one line space. If the equation does not fit in one line, it should be transferred after the equal sign (=) or after the plus sign (+), minus (-), multiplication (*), division (O, or other mathematical sign, and the sign should be repeated in the beginning the next line. When transferring the formula on the sign symbolizing multiplication there should be used the sign "x".

Explanation of the values of symbols and numerical coefficients should be given directly under the formula in the same sequence in which they are in the formula.

The formulas in the thesis should be numbered consecutively within the entire thesis with Arabic numerals in parentheses at the far right of the line. If the explanatory note is made in text editor MS Word, then the formula editor Microsoft Equation or Math Type should be used.

Example

$$\frac{d^2 y}{dt^2} + a_1(t)\frac{dy}{dt} + a_2(t)y = \sqrt{2}\sin\pi t + \sqrt{\frac{5}{2}}\cos 3\pi t, \qquad (1)$$
$$E = \frac{mv^2}{2} + mgh. \qquad (2)$$

A single formula is designated as follows -(1)

The formulas in the Appendices should be numbered separately with Arabic numerals within each Appendix by adding designation of the Appendix before each numeral, for example Formula (B.1).

References in the text to the serial numbers of the formulas should be given in brackets. Example –... in formula (1).

It is allowed to number formulas within the section. In this case, the number of the formula consists of the section number and serial number of the formula, separated by a dot, for example (3.1). The order of presenting mathematical equations in the thesis is the same as the formulas.

It is allowed to write formulas and equations in the thesis by hand with black ink.

The thesis may contain references to Instructions on thesis and abstract preparation, standards, specifications and other documents, provided that they fully and unambiguously determine the appropriate requirements and do not cause difficulties in the use of the document.

Reference should be made to the entire document or its sections and appendices. References to subsections, paragraphs, tables and illustrations are not allowed, except the subsections, paragraphs, tables and illustrations of these Instructions.

When referring to standards and technical specifications there should only be the indication to their designation, and it is allowed not to specify the year of their approval, provided that there is a complete description of the standard in the list of references.

References to the sources used should be given in square brackets.

When there is repeated reference to the same source, the square brackets except the serial number of the source should contain the number of corresponding page.

The list of definitions, symbols and abbreviations, conventional signs, characters, physical units and terms should be placed in a column. On the left in the order of appearance or alphabetically there should be abbreviations, symbols, characters, physical units and the terms, on the right – their detailed transcript.

Information about the sources should be placed in order of their appearance of references in the text of the thesis and numbered with Arabic numerals without dots and typed with indentation.

Appendices should be made as a continuation of the thesis on its subsequent sheets or as a separate document.

The text of the thesis should contain the reference to all appendices. Appendices should be arranged in the order of their references in the text of the thesis.

Each appendix should start on a new page with the word "Appendix" at the top middle of the page, its designation and level.

Appendix should have a title that is typed symmetrically to the text with a capital letter in a separate line.

Appendices are denoted in capital letters of the Russian alphabet, starting with A, except the letters Ё, З, И, О, Ч, Ь, Ы, Ъ.The word "Appendix" should be followed by a letter indicating its sequence.

It is allowed to designate Appendices with Latin alphabet with the exception of letters I, O.

In the case of full use of the letters of the Russian and Latin alphabets it is allowed to designate Appendices with Arabic numerals.

If the document contains a single Appendix, it is referred to as "Appendix A".

The text of each Appendix, if necessary, may be divided into sections, subsections, paragraphs and subparagraphs, which should be numbered within each Appendix. Before the number there should be the designation of the Appendix.

Appendices should have common sequential numbering of pages with the rest of the thesis.

ANNEX C

List of references

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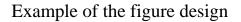
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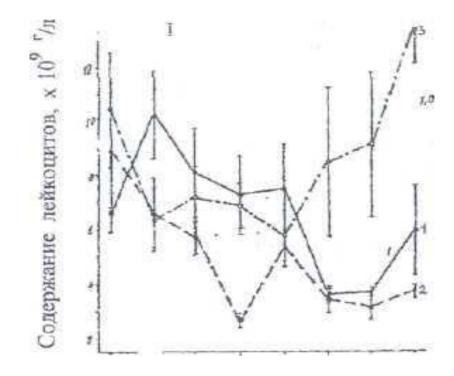
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12 GOST R 51771 – 2001. Apparaturaradioelektronnayabytovaya.Vkhodnye i vykhodnyeparametry i tipysoedinenij.Tekhnicheskietrebovaniya. – Vved. 2002-01-01. – M: GosstandartRossii: Izd-vostandartov, 2001. – IV, 27 s: il.

ANNEX D





Time of a day (24 hours)

I - Daily fluctuations in the content of leukocytes. Legend of curves: control (1); 2-3 days of tumor growth (2); 3-7 days of growth (3); II – the coefficient of daily periodicity (a); daily index of adaptivity(b): A –absence of adaptation B – poor adaptation, C – moderate adaptation, D– strong adaptation to the change of day and night.

Figure 1 - Fluctuations in the content of peripheral blood leukocytes

ANNEX E

Example of the tablelayout

Table 1 – Distribution of KSP of individual cells of Arneth's formula

Types of cells	Control		IDL, Day 7	
	Winter	Summer	Winter	Summer
Neutrophils	0.93	0.87	0.91	1.09
Eosinophils	1.30	2.46	0.75	1.46
Monocytes	1.07	1.54	0.79	1.14
Lymphocytes	1.01	1.03	1.04	0.93