REQUIREMENTS FOR PREPARATION OF THESIS TEXT

I. SCOPE OF THESIS

Scope of thesis – 4-10 quires (1 quire – 40 000 characters with spaces). Thesis text shall be submitted in Portable Document Format (.pdf) format and initial format that has been converted to .pdf document (Microsoft Word, LaTeX, etc.). Both options of thesis text – .pdf and initial format that has been converted to .pdf document – shall be identical. It shall be possible to recognize the elements of text and pictures in the prepared .pdf document. Doctoral student is liable for conformity of submitted .pdf document to the requirements for preparation of thesis text.

II. PAGE PARAMETERS

Page format – B5 (170 mm width and 240 mm height). Even and odd pages are different. Margins of odd pages: left – 20 mm, right – 18 mm, top and bottom – 18 mm, margins of even pages: left – 18 mm, right – 20 mm, top and bottom – 18 mm. Pages and numbered at the bottom: odd on the right side and even – on the left. Page number is written if font Times New Roman 11 pt.

III. HEADING PAGE

Text in the heading page is written in font Times New Roman, centred. Name of the university is written at the top of the page in 13 pt, capital letters, then 5 cm space and author's name and surname in 13 pt, capital letters, then 2 cm space and thesis title in 18 pt, capital letters, single-spaced. There is 3 cm space after the title and two lines of required text are written in 12 pt, lower case letters, single-spaced. Year and city is written at the bottom of the page.

IV. MAIN TEXT

The whole main text is written in Times New Roman font, 11 pt, single-spaced, paragraph's first line indent 0,9 cm. Main text is aligned on both sides without spaces between paragraphs. Marking text in pictures is written in Italic font.

Sizes and styles of other fonts are indicated in table 1.

<table>
<thead>
<tr>
<th>Table 1. Sizes and styles of fonts</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
</tr>
<tr>
<td>Thesis text</td>
</tr>
<tr>
<td>Titles of chapters</td>
</tr>
<tr>
<td>Titles of sections</td>
</tr>
<tr>
<td>Table heading</td>
</tr>
<tr>
<td>Table content</td>
</tr>
<tr>
<td>Title of picture</td>
</tr>
</tbody>
</table>
Titles of chapters are written in Bold, capital letters, 11 pt, single-spaced, aligned on left side, numbered in Arabic characters. They are separated from text by 12 pt spaces. Titles of sections are written in Bold, 11 pt, single-spaced, aligned on left side. Titles of sections are separated from text by 6 pt spaces. Full point is written after numbers of chapters and sections.

V. PICTURES AND TABLES

Pictures and tables shall be centred horizontally in the page width. If possible, smaller pictures and tables shall be inserted in the text on left or right side of the page after they are referred to in the text using their abbreviations, for example, "pic. 2.1", "Tab. 3.2". In special cases picture or table can be positioned lengthwise (landscape). In such case picture or table with title is centred in the middle of the page. Pictures and tables are numbered within the section.

5.1. Pictures

Font, used for text in the pictures, has to make the text easily legible. Title of picture is written at the bottom of the picture, 10 pt, single-spaced and centred. Title of picture starts with abbreviation "pic." and number in Arabic characters. Number of the picture and abbreviation "pic." are written in Bold font (for example, pic. 1). There is no full point after title of picture.

There are 6 pt spaces before and after title of picture. Measurement units in titles of picture axes are written in parentheses.

5.2. Tables

Table headings are written above tables, 11 pt font, single-spaced, aligned to first column. Heading, describing table content, begins with a word "table" and number in Arabic characters. Number of table and a word "table" are written in Bold font (for example, Table 1). There is no full point after title of table. There are 6 pt spaces before and after title of table. In the text tables are referred to using abbreviation, for example, Tab. 1.

VI. MATHEMATICAL FORMULAS

Mathematical formulas are centred and numbered in brackets in Arabic characters, aligned on right side of the page. Variables in the formulas and in the text are written in italics and vectors and matrixes – in Bold font, symbols and Greek letters – in Basic font. Abbreviations of mathematical terms, numbers and dimensions are written only in Basic font.
When formula is a part of sentence, punctuation rules shall be complied with: commas between formulas and full point after the last formula. If variables are defined after the formula, semicolon is written and new line starts by the word "here" in lower-case letter. There are 6 pt spaces before and after the formula:

$$u(t) = U_m \sin(\omega t + \varphi);$$

(1)

here $u(t)$ – ...

Formula's variables must be indicated before the formula and right after it. In the text number of formula is indicated in brackets, for example, formula (1).

VII. ABBREVIATIONS

Abbreviations are defined after they are used in the text for the first time. Such generally accepted abbreviations as IEC, IEEE, and SI do not need definition. Abbreviations are not used in titles of chapters and sections, except when they are generally accepted.

VIII. CONCLUSIONS

Conclusions are provided in a separate chapter.

Conclusions shall be numbered and provided with 0,5 cm left indent in each line. They shall reflect the statements of defended thesis and solutions to the tasks formulated in introduction.

IX. LITERATURE

Information resources can be quoted in the text in accordance with LST ISO 690-2010 international standard, which is valid in Lithuania or choose APA 5 quotation style.

Examples of references to the resources quoted in the text:
Buivydas (2014) states, that ...
... (Petreikienė, 2013).

If a few resources are quoted, they are presented in alphabetical order, for example (Jonaitienė, 2014; Petrulis, Andrikienė, 2012).

When quotes include a few works by the same author published in the same year, letters are added to the quotation's year in the text, for example (Jankauskienė, 2014a; Jankauskienė, 2014b; Jankauskienė, 2014c). In bibliographic descriptions of literature list letters are also added to year, for example,

Jankauskienė, D. (2014a)...
Jankauskienė, D. (2014b)...
Jankauskienė, D. (2014c)...

<table>
<thead>
<tr>
<th>Quotation type</th>
<th>Quoted for the first time in the text</th>
<th>Further quotation in the text</th>
<th>First quotation in brackets</th>
<th>Further quotation in brackets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three authors</td>
<td>Vaivada, Blinstrubas and Mockevičienė (2011)</td>
<td>Vaivada and others (2011) or Vaivada et al. (2011)</td>
<td>(Vaivada, Blinstrubas and Mockevičienė, 2011)</td>
<td>(Vaivada and others, 2011) or (Vaivada et al., 2011)</td>
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<td>Six and</td>
<td>Butkus and others</td>
<td>Butkus and others</td>
<td>(Butkus and others,</td>
<td>(Butkus and</td>
</tr>
</tbody>
</table>

Table 2. Quotation of resources in the text
Literature used for preparation of thesis is indicated at the end of thesis. Listed literature resources are numbered in Arabic characters. Full point is written after number. List of literature resources is provided with 0.8 cm indent.

Examples of bibliographic descriptions in literature list, according to standard LST ISO 690-2010:

**Theses defended in fields of physical sciences and technologies**

**Monographs, textbooks:**

**Articles from magazines:**

**Articles from collections of scientific works, collections of conference proceedings:**

**Electronic publications:**


**Electronic articles in databases:**


**Patent documents:**

**Examples of bibliographic descriptions in literature list in accordance with APA 5 quotation style:**

**Theses defended in fields of humanities and social sciences**

**Monographs, textbooks, books:**

**Books by one author:**

**Books by two authors:**

**Books by 3 and more authors, including data of edition:**

**Collective author:**

**Books by one editor:**

**Books by two and more editors:**
Books with no authors or editors:


Part of the book or article from the book:


**Articles from magazines:**

Article by one author from the magazine:


Article by two authors from the magazine:


Article by three or more authors from the magazine:


**Articles from collections of scientific works and collections of conference proceedings:**


**Electronic publications:**


**Electronic articles:**

DOI:


**X. LIST OF SCIENTIFIC PUBLICATIONS IN THESIS TOPIC**

List of scientific publications in thesis topic is made according to the publication information, which is provided to publication database by doctoral students.