

**“Lucian Blaga” University of Sibiu
Engineering Faculty
Department of Computer Science, Electrical
and Electronics Engineering**

GUIDE TO ELABORATE THE DISSERTATION PAPER

for graduates of the master programs :

**Advanced Computing Systems
Embedded Systems**

The dissertation paper must be written in *English*.

Each paper is compulsory to respond of following questions:

- Which is the actual state of the problem ?
- What is done at international level ?
- Which is the main idea of the paper ?
- Which methodology have you used in developing the subject ?
- Which are the main results of your paper and application areas ?
- Which are the main steps to develop your research in the future ?

Drafting rules

The paper will be written on computer, using one of the Microsoft Word versions, with characters equivalent in size to Times New Roman – 12 and using 1.5 line spacing. The text will be printed on a single face of the paper sheet. The sheets will be numbered. The content will be structured in chapters and paragraphs, identified by titles and numbering.

Paper structure

Front cover :

**“Lucian Blaga” University of Sibiu – Romania
Faculty of Engineering
Master program : *(name of the master program)***

DISSERTATION

(first name and last name of the graduate)

(year of graduation)

First page :

<p style="text-align: center;">“Lucian Blaga” University of Sibiu – Romania Faculty of Engineering Master program : <i>(name of the master program)</i></p> <p style="text-align: center;">DISSERTATION</p> <p style="text-align: center;"><i>(title of the paper)</i></p> <p style="text-align: center;">Graduate : <i>(graduate’s first name and last name)</i> Scientific coordinator : <i>(coordinator’s first name and last name)</i></p> <p style="text-align: center;"><i>(year of graduation)</i></p>

Thematic plan : The form is available in the secretariat of the Department. It will be filled in by the scientific coordinator and transmitted to the student when communicating the subject of the dissertation paper.

Contents : A complete list of chapters, paragraphs and annexes, indicating the beginning page number of each.

Abstract : (2...3 pages) : Short explanation about the meaning of the subject and its possible applications. Explanation of the initial requirements. Short presentation of what was done in developing the subject.

Part I – Theoretical substantiation (bibliographical study) (10...15 pages): This part will contain a synthesis of the actual knowledge related to the subject and a short presentation of the theoretical fundamentals of the methods that were used in the paper. The text will be structured in chapters and paragraphs. The bibliographic references will be specified in the text by indicating in square brackets (ex.: [15]) the number of the source in the reference list attached at the end of the dissertation paper. Tables, diagrams or figures will be inserted in the text to make the most clear as possible the explanations. All graphic elements will be numbered and indicated in the text by the corresponding numbers.

Part II – Development of the subject (35...45 pages): This 2nd part has to be **the most consistent** section of the dissertation paper. The different stages covered during the development of the subject will be presented in a logic succession. Each step, affirmation or option will be strictly justified. Justifying elements (mathematical calculus, computer programs, etc.) will be included in the text or, if very extended, in an annex. The text will be structured in chapters and paragraphs, identified by relevant titles. The bibliographic references will be specified in the text by indicating in square brackets the number of the source in the reference list (ex.: [23]). Tables, diagrams or figures will be numbered and referred in the text.

Conclusions (1..3 pages) : a short presentation of the significant results, an evaluation of the applicability of these results and an estimation of the possibilities to extend and develop the subject in the future.

References : a numbered list of all the documentation sources used to elaborate the dissertation paper (books, scientific papers, catalogues, patents, Web pages). The list will be written in

alphabetic order of the first author. Collective works and Web pages will be positioned at the end of the list.

Example for a book :

7. ALMAINI A., McCLUSKEY J.C. -*Title of the book (in Italics)*, Publisher, ISBN....., Place of Publication, year of publication.

Example for a paper :

11. SMITH, D.A. -*Title of the paper (in Italics)*. Name of Journal, Vol., No., (month and year of the edition) page numbers (first-last), ISSN.....

Example for a company document :

* * * *Title of the document (in Italics)*, Name of the company, Location of the company (town and land), year of publication.

Example for a Web page :

* * * *Name of Document (in Italics)*, Available from: <http://www.exact-address-of-site>, Accessed: dd/mm/yyyy.

Annexes : listed sources of computer programs written by the author, block-diagrams and electronic schemes, mathematical calculus, catalogue extracts, etc. Annexes will be numbered and specified in the paper contents.

A CD containing all the sources of computer programs written by the author and the text of the dissertation paper in *.doc format will be attached on the back cover of the dissertation paper.

On demand of the scientific coordinator : other specific materials can be attached to the dissertation paper.

NOTE : templates for front cover and first page are available at the Department.

Head of Computer Science,
Electrical and Electronics Engineering Department

Professor Daniel VOLOVICI, PhD