

Faculty of Business and Economics | Chair of Business Administration, esp. Logistics | Prof. Dr. Rainer Lasch Logo of the TU Dresden: Lettering "Technische Universität Dresden". To the left of it is an octagon, which is divided into two areas that together make up the letters "T" and "U".

*Title of the Bachelor's/Master's/Diploma thesis*

Independent scientific work

to obtain the academic degree

*Bachelor of Science/ Master of Science / Diploma in industrial engineering*

Submitted to the

Technical University of Dresden

Faculty of Business Administration and Economics

Chair of Business Administration, esp. Logistics

Prof. Dr. Rainer Lasch

Submitted to:

Prof. Dr. Rainer Lasch

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Place, date

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List of Abbreviations

DBIS Datenbank-Infosystem

SLUB Sächsische Landesbibliothek - Staats- und Universitätsbibliothek Dresden

List of Symbols

List of Equations

List of Algorithms

# Research

Scientific work requires, among other things, the evaluation of various sources of literature. Reference works, library catalogues, periodicals, bibliographies, the Internet in general and databases can be used to search for literature.

Reference works such as language dictionaries, specialised encyclopaedias or specialised dictionaries provide an initial insight into the respective topic. They are helpful for understanding the meaning of individual terms and for assessing the structure and development of a subject area. Periodicals such as yearbooks, journals or magazines represent the current state of research in the respective subject areas and are therefore indispensable as up-to-date sources.

Bibliographies are directories that list the literature of a country or a time period, a language area or a subject area. A distinction is made between interdisciplinary and specialised bibliographies.

Databases provide a wide range of information in electronic form. A distinction must be made between bibliographic databases, full-text databases and factual databases.

There are a few points to bear in mind when researching on the Internet. Much of the information is of a non-scientific nature and must be critically scrutinised by the reader for its truthfulness. A targeted search with clear keywords is therefore necessary. The Google Scholar search engine at http://scholar.google.de/ offers a limited search for publications that are mostly considered scientific.

The Saxon State Library - Dresden State and University Library (SLUB) offers a wide range of literature and research options. For example, the database information system (DBIS) can be used for researching specialised journals. Furthermore, a large number of journals are available in DrePunct and in the Central Library (SLUB Dresden, 2024).

# Parts of a Scientific Paper

## Overview

A seminar paper, student research project or thesis consists of different parts, depending on its form. The division of the manuscript based on DIN 1422-1 should be favoured here.

## Front Page

The title should give the reader a concise impression of the keywords and the content of the scientific work. The subject title, which can be supplemented by a subtitle, if necessary, should generally be centered, avoiding abbreviations, special characters and stating the type of work (e.g. Bachelor's thesis).

Furthermore, the title page should contain the author's name as well as the respective thesis number, the degree program, the supervisor and the submission date. If there are several authors, they should all be listed with the above information. In addition, the title page of academic papers should correspond to the form specified by the Chair of Logistics.

## Tables

### Table of Contents

#### Components and page numbering

The table of contents is mandatory in the introduction of a scientific paper. The table of contents shows the logical structure of a scientific paper and should provide the reader with an overview of the paper. The numbering within the text must be integrated here, i.e. the typographical structure of the table of contents is identical to the typographical structure of the headings.

Chapters and subchapters are listed with page numbers in the right-hand margin. Only Arabic and Roman numerals are to be used for pagination. Roman numerals are used on the pages before the body of the text. The Roman numeral I is assigned to the first printed page (title page) but is not listed. The first explicitly listed Roman numeral (II) appears on the first page of the table of contents. The numbering with Arabic numerals begins on the first page of the body of the text and is also used for the appendix and the bibliography. The table of contents must list all parts of the thesis that have a Roman or Arabic page number, with the exception of the title page, the table of contents, the acknowledgements, the embargo note and the declaration of honour. Unprinted interleaved pages are also included in the count. It is also recommended that the numerical outline is used in the gradation principle. This means that only numerical chapter numbers should be used for the outline levels and subordinate levels should be indented (Lasch, 2022).

#### Organisational structure

Section numbers are not closed with a full stop or brackets and are to be set in Arabic numerals. The tables do not bear section numbers. In the appendix, the sections are subdivided in the form of alpha-numeric designations such as A.1 and A.2 - but only at one level. If the appendices differ in content, several appendices (A, B, C, etc.) can be labelled (Hoffmann and Lasch, 2023, p. 13).

When subdividing the sections, it should be noted that a section consists of at least two subsections. Otherwise, the subdivision is omitted. Subdivisions after the third level are no longer assigned section numbers and are therefore not listed in the table of contents.

The lists of figures and tables contain the title (or short title) as well as the respective page of the figures or tables used in the entire scientific work and are to be numbered consecutively section by section. In the case of lists of figures and tables that are longer than one page, the two lists must be separated.

### Further Tables

## Illustrations

Images are integrated as floating objects. This means that the text before and after the illustration is still legitimate (see Figure 1).

Figure 1: Logo of the Chair of Logistics

## Formulas

The following formula describes some relationship:

|  |  |  |
| --- | --- | --- |
|  |  | (1) |

Here the text continues with the formula (2).

|  |  |  |
| --- | --- | --- |
|  | ; | (2) |

## Tables

Tables are also included in the text, as can be seen in Table 1.

Table : Example table

|  |  |  |
| --- | --- | --- |
| Heading | Heading | Heading |
| Entry | Entry | Entry |

|  |
| --- |
|  |

After that, the text continues here.

# Bibliography

Hoffmann, M. A. and Lasch, R. (2023): ‘Tackling Industrial Downtimes with Artificial Intelligence in Data-Driven Maintenance ‘, *Data-Driven Maintenance*, 56(4), pp. 1-33. doi: 10.1145/3623378.

Lasch, R. (2022): *Strategic and Operational Logistics Management: Procurement*. 4th edition. Wiesbaden: Springer.

SLUB Dresden (2024): *Saxon State Library – Dresden State and University Library (SLUB).* Available at: https://www.slub-dresden.de/ueber-uns (accessed on 12.08.2024).

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The work has not yet been submitted in the same or a similar form to any other examination authority and has not yet been published. I am aware that an untrue declaration will have legal consequences.

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