

**University of Debrecen
Faculty of Science and Technology**

DIPLOMA THESIS

Guidlines for preparing the BSc diploma thesis

- compiled by the Dept. of Hidrobiolology in 2021 -

- updated in 2022-

Debrecen

2021.

GENERAL REQUIREMENTS

Completion of the thesis and institute / department defense is a prerequisite for passing the oral final exam. It is a basic requirement for all students to solve the chosen topic and task based on what they have learned at the university, to the standard required by the given training.

The aim of the diploma thesis is to prove the candidate's level of training in the given topic in the domestic and foreign literature, as well as his / her analytical and evaluative skills. Prove that he/she is able to carry out observations (experiments) on his/her own, to process literature sources, to analyze monographs, to collect data, to evaluate and to draw the right conclusions from all this.

The thesis must certify that the candidate is able to apply the acquired skills in practice and use them creatively.

The topics of the thesis are designated by the institutes / departments in such a way that they are in line with the training goal, meet the practical needs, at the same time students have the opportunity to perform the necessary examinations, collect and process data.

It is also possible for the student to apply to the professionally competent institute / department with the topic of a diploma thesis that fits into the research profile of the Faculty, in accordance with the conditions set out above. The consultant decides on the admission of the topic of thesis formulated independently by the student, taking into account the training output requirements of the given student's program, if necessary in consultation with the head of the given department/institute.

The consulting task is performed by the staff of the institute / department announcing the topic.

The preparation of the diploma thesis is supervised by an internal consultant approved by the institute / department, and it can also be assisted by an external consultant approved by the department.

Students choose their thesis topic in the semester specified in the curriculum.

The length of the thesis should be between 15-20 written pages (A/4 paper size, 2.5 cm margins, 12 points Times New Roman letter size and type, and 1.5 spacing) + figures, graphs, tables and appendices (if any).

A thesis that does not reach the minimum length cannot be submitted.

Plagiarism should be avoided during the preparation of the thesis.

The following are considered plagiarism:

- Literally quoting an idea or text described by another author (known, unknown author) without giving the name of the original author and without using quotation marks.
- Indication of the thoughts of another author (known, unknown author) as her/his own (for example, omitting the name of the original author, or including an idea described by another author, after minimal modification of the structure and content).

The possibility of literal quotation can be used only in justified cases (eg definitions, findings, legal reference, etc.) when there is really no possibility to reword the cited text and this should be indicated by quotation marks.

It is important that the thesis is the result of the Author's independent work and in each case contains his/her own conclusions and recommendations.

The recommended structure of the thesis

The structure of the thesis should be divided as follows:

- Title page
- Table of Contents
- Introduction and review of the literature
- Objectives
- Materials & methods
- Results
- Discussion
- Summary
- Acknowledgements (if any)
- Bibliography

Suggestions for a printed format

Design and inscription of covers

Outer cover: black hardcover canvas.

Size: 21.5 x 30.5 cm.

Captions (in gold letters):

In case of master's degree: DIPLOMA THESIS

The name of the author

Place (Debrecen) and year of submission of the thesis

Internal cover inscriptions:

- University, faculty, institute / department, name of head of institute/ department, position
- Title of the thesis
- Name of the author, title of the program
- Name and position of the supervisor
- Place (Debrecen) and year of submission of the thesis

The content and aesthetic value of the thesis are enhanced by well-arranged charts, figures, graphs, diagrams and photographs.

All charts, figures, etc. shall be given a title and a serial number so that the titles and numbers of the charts are given above the chart and the titles and numbers of the figures below the figure. Each should be referenced in the text. SI (Système International d'Unités) symbols shall be used to indicate the units of physical quantity.

Regardless of the number of columns, the table should run from margin to margin (a wider column should be set if necessary) (Click the table to "Automatically scale to window" command).

Table 1: Proportion of ecological areas in Hungary, 1999-2002

YEAR	ECO-AREA (ha)	ANNUAL GROWTH (ha)	ANNUAL GROWTH (%)
1999	35 979	13 476	60
2000	53 649	17 640	49
2001	79 178	25 529	48
2002	103 700	24 522	31

Source: Biokontroll Hungária Nonprofit Kft. own editing

The serial numbers and titles of the figures should be edited in the same way as the charts, except that they should be placed below the figures. After the line feed after the continuous text, the figure can be inserted in the next line. It's a good idea to always insert images as an enhanced metafile. The name of the figure should be placed in the line below the figure, and its source should be placed in the next line (closed to the left).

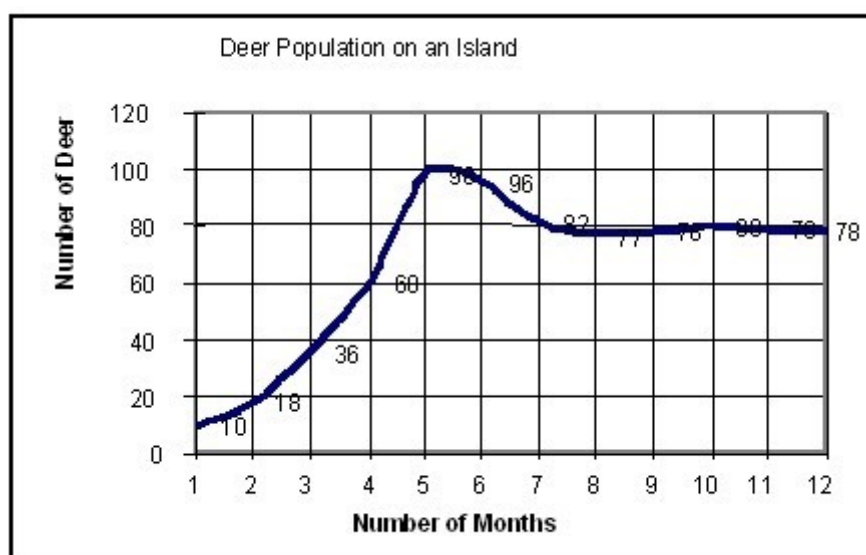


Figure 1: Dear population change with regard to the past months on an Island. Source: Mrs. E's biology site

The title

Should be short, understandable and describe well the content.

Introduction and review of the literature

It deals with the theoretical and practical significance of the topic (length is in consultation with the supervisor). The processing of literature related to the topic should be closely related to the topic. An important role of the chapter is to show the candidate's proficiency and literacy in the given topic. The chapter is comprehensive, showing where the authoritative literature on the given topic is - what the most important basic works are and how the development of the literature can be perceived in the light of the latest source works. The results described in the literature must be critically analysed and evaluated.

The following can be considered as quality sources:

- textbooks,
- journals D1, Q1, Q2, Q3, Q4 (see: <https://www.scimagojr.com/>),
- publications recorded in the Scopus system (see www.scopus.com),
- Patents
- Official international and domestic databases (eg CSO, FAO, WHO)

Objectives

Justify your own studies and objectives (length is in consultation with the supervisor).

Materials and methods

In the description of the materials and methods related to the examinations and monographic analyzes, the conditions of the experimentation, examination and the methods of analysis must be described.

Results

This chapter contains the results of the tests and analyzes. It is advisable to summarize the results in charts, to illustrate them with figures and to prove their reliability with mathematical - statistical methods, taking into account the peculiarities of the field.

Discussion

Here you interpret your results in relation to your original hypotheses and previous literature.

Summary

Briefly describe the circumstances in which the tests took place and the issues covered. The main results, findings and conclusions drawn should be presented. Concise and clear wording should be sought.

Bibliography

The compilation of the "bibliography" should be accurate and careful, in accordance with domestic and internationally accepted forms. The bibliography can only contain sources cited by the student in the context. All source work used must be indicated in the dissertation. A list of source works without intertextual references is not in itself adequate. When compiling the literature used, the basic requirement for describing the titles is that the bibliographic items contain data accurately and verifiably, on the basis of which traceability can be ensured.

The bibliography should be Times New Roman, font size 12, line-separated, pending indent 1cm.

The bibliography should be compiled in a strict alphabetical order based on the initials of the authors' names, in chronological order. For foreign language publications, a comma must be placed after the last name. Only work that is referenced in the text can be included here. All data on the source work must be given exactly in the bibliography.

The proposed segments should be as follows:

- books, articles, studies; (close ABC order regardless of type)
- INTERNET data collection, (in this case special attention should be paid to the references, the references should preferably be given with the author (s) and title)
- other sources, eg legislation, statistical data sources, company materials

Detailed requirements for compiling the bibliography are given in Chapter 2.4.

Intertext link

During the text, the source work must be referred to by indicating the author's surname and the year of publication of the work (a comma is inserted between the name of the foreign author and the year, first name does not have to be given even in abbreviated form).

With reference to the name of the author: the name of the author, followed by the year of publication of the publication (DOHY, 1984). In the case of a double-named author, we use a hyphen without spaces (LISZTES-SZABÓ, 2016).

If there are two or more authors, the names of both/each must be written: name, space, and, Space, name, comma, space, year (HEROLD and TAKÁCS, 1984)

In the case of several publications stating the same fact: a description of the fact, in brackets the references are arranged in the order of the year of publication, the authors are separated by semicolons.

For example: The relationship between economic growth and environmental damage has been the subject of a significant number of theoretical and empirical works (SELDEN and SONG, 1994; SHAFIK, 1994; GROSSMAN and KRUEGER, 1995; COLE et al., 1997; ROTHMAN, 1998; SURI - CHAPMAN, 1998; AGRAS and CHAPMAN, 1999; MUNASINGHE, 1999; DINDA et al., 2000; GAWANDE et al., 2000; TISDELL, 2001; BIMONTE, 2002; PASCHE, 2002; DINDA, 2004a, c) discussed in recent years.

Reference to several works of an author published in the same year: name of the author, year numbers "a", "b", "c", etc. marked.

In the text of the theses, the names of the authors are written in capital letters, e.g., (DOHY, 1984a), (DOHY, 1984b). For literal citations, the text should be enclosed in quotation marks.

Neither in the case of an intertextual reference nor in the bibliography do we list the scientific degree or other qualification for the name (Dr. Prof. etc.). When referring to an oral communication, the year and the oral communication are indicated after the surname of the cited person, for example: (BALOGH, 2010, oral communication).

For literal citations

For literal citations, the text should be enclosed in quotation marks. Reference to a specific sentence or paragraph (only in very justified cases: short, maximum one paragraph, maximum 8-10 lines), ie after the reference in brackets we put a full stop and not before the reference (bracket).

For example: ". ... tons of fish production in 1000 (Szucs, 2012)"

Internet links

If the author is known in the meantime, we refer to it as listed earlier. If the author cannot be identified, we refer to the name of the website, and the date of the view in brackets. Pl. (WTO, 2012). In this case, the exact Internet path is only given in the bibliography.

Compilation of bibliography

The compilation of the "bibliography" should be accurate and careful, in accordance with domestic and internationally accepted forms. In the bibliography, the order A-B-C should be used according to the names of each author.

Only literature used by the candidate and referred to in the thesis may be included in the list.

When compiling the literature used, the basic requirement for describing the titles is that the bibliographic items contain the data accurately and verifiably, on the basis of which traceability can be ensured. The title of the publications must be given in the language in which it was published.

In the case of publications published in journals:

Author's last name (in capital letters), first letter of first name, period, year of publication, colon, article title, point, journal title, point, volume / volume number, point, booklet number, point, first page of publication, hyphen, last page of publication, point.

WIDE N., KOVÁCS B., PROKISCH J., GYŐRI Z. (2008): Changes in selenium forms of soil samples during storage. *Agrochemistry and Soil Science*. 57. 1. 47-56.

FARNHAM, E. D. (2001): Row spacing, plant density, and hybrid effects on corn grain yield and moisture. *Agronomy Journal*. 93. 5. 1049-1053.

If we refer to several articles by an author or authors published in the same year, we write the appropriate letters of the alphabet after the year of publication.

In the case of a foreign author, the surname is followed by a comma and the first letter of the first name is followed by a period.

In case of books:

Name of the author(s), year, colon, title of the book, period, name of the publisher, comma, place of publication, length of the book.

GONDA, I. (2004): Basics of horticulture: a practical note. DE ATC, Debrecen. 41 p.

MIHÓK S., POSTA J., PRUTKAY Z., KOMLÓSI I. (2010): Breeding value estimation based on Hungarian sport horse mare performance tests. National Association of Hungarian Sport Horse Breeders, Budapest. 207 p.

In case of a book chapter:

If each chapter of the given book was written by different authors, the name of the author of the chapter, year of publication, title of the chapter, scope of publication (from, to) In: title of the book, name of the editor (s) in brackets, publisher, publication place, the scope of the publication should be indicated For example:

KOVÁCS B., ANDRÁSI D., BÓDI É. (2014): Effect of molybdenum and selenium treatment on element content of wheat and pea sprouts. 126-137. In: Development opportunities for sustainable crop production: Prof. Dr. Mihály Sárvári is 70 years old. (Ed. PEPÓ P.) Debrecen University Publishing House, Debrecen. 304 p.

In the case of a study published in another periodical:

In the case of published lectures of congresses and conferences: to be included only if the volume containing the material of the congress or conference contains a complete or informative summary of the lecture. Name of the author (lecturer), title of the lecture, title of the congress, topic (if any and included in the publication), name of the congress, conference, serial number (in Arabic numerals) date, year, month, day, place, published publication about the congress, volume number, name of the editor of the publication, name of the congress organizer (body / bodies), place of publication of the publication, year, publisher, number of pages of the author's lectures (from... to...)

KUTASY E. (2002): Quality and quality stability of winter wheat varieties. 232-237. In: II. Plant Production Science Day: "Integration tasks in Hungarian plant production". (Ed. PEPÓ P. and JOLÁNKAI M.) Plant Production Committee of the Hungarian Academy of Sciences, Budapest, p. 354.

Electronic source:

In case of a known author: name of the author (s), date, colon, name of the source, path and date of access. For example:

DUTIA, S. (2014): AgTech: Challenges and Opportunities for Sustainable Growth. https://papers.ssrn.com/sol3/papers2.cfm?abstract_id=2431316 Downloaded: 20/02/2017

If the author is unknown: is the name of the publishing organization of the source or its abbreviation, the date (if known), a colon, the name of the source, the path and time of access. For example:

KSH, (2018): Hungary in numbers, 2017. <https://www.ksh.hu/docs/eng/xftp/idoszaki/mosz/mosz17.pdf> Downloaded: 12/05/2020.

NEBIH: Options for reducing aflatoxin contamination in dairy cow feed. <https://portal.nebih.gov.hu/web/guest/-/tejelo-tehen-takarmanyok-aflatoxin-szennyezettsegenek-csokkentesi-lehetosegei> Downloaded: 2020. 05. 12.

Office publication, anonymous form:

Sample: Name of the organization or company that produced the publication or form (year of publication, if indicated). Title of the publication, form. Type of publication, form. Place of publication (if indicated), total number of pages p.

SEMINIS (2004): Hungarian Catalog 2005-2006. Catalog of varieties. 57 p.

The wildlife of the Bükk National Park. Flyer. Bükk National Park. 12 p.

Standard: Letter used in the issuing country and standard number, title, publication, page number (entry into force if any)

MSZ 15481:2001 Definitions of seeds and certain propagating material. MSZH, Budapest, 35 p. 7/1/2001

Outer cover:

DIPLOMA THESIS

Your name

Inner cover inscriptions:



**UNIVERSITY of
DEBRECEN**



DIPLOMA THESIS

THESIS TITLE

YOUR NAME

Name of your program

Supervisor:

Name of the supervisor

University position

Supervisor2 if necessary

Consultant: if your supervisor is not an employee of the University

University of Debrecen, Faculty of Science and Technology, Department of...(where
your supervisor is working)

Debrecen

20...

For the thesis statement you need to open the below file or click on the link below.

The completed and signed statement need to be included into the Diploma thesis. In general, the statement follows the cover page.



Thesis_Statement_TTK_ENG.pdf

https://mad-hatter.it.unideb.hu/portal/displayDocument/Szervezeti%C3%A1rak/Kari%C3%A1rak/TTK/Dokumentumt%C3%A1r/Oktat%C3%A1s/Z%C3%A1rvizsga/2019-20-1/Thesis_Statement_TTK_ENG.pdf