**Antal Kerpely Doctoral School of Materials Sciences and Technologies**

**Form and content requirements of the doctoral dissertation and theses/claim booklet**

The doctoral dissertation is a summary work presenting the candidate's new scientific results, which can be written in Hungarian or in a foreign language approved by the Scientific Doctoral Council. The doctoral thesis must be prepared and submitted in 5 hardbound copies.

With the dissertation, the Candidate must prove that he/she has the professional knowledge required to obtain the PhD degree in the field of study; that he/she knows and can use the methods of the profession; that he/she has the complex approach to deal with the professional problems that arise; as well as he/she is able to solve a specific scientific task and to present his/her new scientific results within specific content and formal frameworks.

**Content requirements of the dissertation**

The dissertation generally includes the following:

* The supervisor's recommendation (max. 1 page).
* The candidate processes the issue raised using modern tools in accordance with the accepted rules of the profession.
* Literature review, formulating the revealed lack of knowledge and the specific purpose of the research.
* Presentation of test methods and tools.
* A detailed description of his/her own research results.
* Formulation of Claims.

The doctoral candidate defends Claims, not dissertation. The Claims must be self-explanatory, but the Claims only declares the new scientific result, it does not prove it (the dissertation behind the Claims is written for the purpose of proof, so it is not worth writing anything in the dissertation that does not serve to substantiate any of the Claims).

If necessary, the Claims can also contain figures and equations.

The candidate must write a minimum of 1 and a maximum of 10 Claims; the recommended number of Claims is 5, and the Claims must be numbered (1, 2, ...). Within a Claim, there can be subclaims, which are numbered e.g. 2.b, which is subclaim b of claim 2. As an introduction to the "Claims" chapter (before the 1st claim), the conditions under which the claims are valid can be briefly summarized so they do not need to be repeated in every claim. The Judging Committee cannot modify claims, but it can accept some claims by accepting at least one of its sub-claims and rejecting the rest (if any).

The PhD title can only be awarded to the Candidate if the Jury accepts at least one sub-claim of one claim.

The criteria for a good claim are specific, new and proven. "Specific" means that the new statement must be given as specifically as possible (if possible, with a number and unit of measure), including the uncertainty and the range of validity. "New" means not previously published in the available world literature. "Proven" means that the claim clearly follows from the literary and own research results described in the main text of the dissertation.

* Merit summary, conclusions, suggestions for practical application and/or further research of the topic in Hungarian and English.
* List of own publications, including independent references.
* List of referenced literature.

**The formal requirements of the dissertation**

* Outer cover
* Inner cover (Contains the title of the dissertation, the author, the supervisor's name, the place and year of preparation, and the name of the doctoral school and the president.
* Table of contents with numbered chapters
* List of abbreviations (if relevant)

**The length of the dissertation:** minimum 60, maximum 100 A/4 pages (without appendices), recommended format: 1.5 line spacing, Times New Roman font, font size 12, line alignment, margin on the left side 3 cm, the rest 2, 5 cm, page number at the bottom of the page in the middle.

**Content requirements of the thesis booklet**

The candidate must attach 10 copies of the thesis booklet to his/her claims. The thesis booklet of the doctoral dissertation contains:

* An abbreviated summary of the set research task, emphasizing the revealed knowledge gaps.
* An abbreviated description of the performed tests and experiments.
* The claims, literally as they appear in the dissertation.
* List of the candidate's own publications, as they appear in the dissertation.
* Summary in English.

Hungarian students must also prepare a thesis booklet in Hungarian for the dissertation written in a foreign language.

**Formal requirements of the thesis booklet**

The thesis booklet is produced in 8-20 pages, in A5 size. Recommended format: 1.5 line spacing, Times New Roman font, font size 12, line alignment, margin 2.5 cm, page number at the bottom center of the page.

The title page of the thesis booklet contains the designation "Claims of doctoral (PhD) dissertation", the name of the Doctoral School, the president of the Doctoral School and the supervisor, the name of the candidate and the title of the dissertation, the place and time of preparation (year).

***Outer cover***

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| PhD dissertation  Name of the Author  (highest degree, e.g. MSc in Materials science)  Miskolc, year |

***Inner cover***

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| **Antal Kerpely Doctoral School of Materials Science and Technology**  A képen Emberi arc, ruházat, portré, szöveg látható  Automatikusan generált leírás  Title  PhD dissertation  Name of the Author  (highest degree, e.g. MSc in Materials science)  Name of the Supervisor  (highest degree, e.g. PhD)  Name of the Head of the Doctoral School  (highest degree, e.g. DSc)  Miskolc, year |

**Title page of the Theses/Claim booklet**

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| **Antal Kerpely Doctoral School of Materials Science and Technology**  A képen Emberi arc, ruházat, portré, szöveg látható  Automatikusan generált leírás  Title  Claim booklet of the PhD dissertation  Name of the Author  (highest degree, e.g. MSc in Materials science)  Name of the Supervisor  (highest degree, e.g. PhD)  Name of the Head of the Doctoral School  (highest degree, e.g. DSc)  Miskolc, year |