



UNIVERSITY OF MISKOLC

**Faculty of Materials and Chemical Engineering
Antal Kerpely Doctoral School of Materials Science and Technology**

EDUCATION PROCEDURES

01.May, 2024.

No. of series: A2

Responsible for preparation: Head of the Doctoral School

Responsible for issuance: Head of the University Doctoral Council

Approving decision No. of the University Doctoral Council:.

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Chapter I

Purpose of the Rules

1. §

- (1) The purpose of these training rules (hereinafter referred to as: Rules) is to determine the training requirements for doctoral training at the Antal Kerpely Doctoral School of Materials Sciences and Technologies operating at the Faculty of Materials and Chemical Engineering, as well as the rules for the complex examination and research seminars.

Legislation applicable to the Rules and the scope of the Rules

2. §

- (1) The basic legislation and other binding documents covering the areas defined as the purpose of the Rules are:
- a) Act CCIV of 2011 on national higher education
 - b) Act C of 2001 “on the recognition of foreign certificates and diplomas”
 - c) Government Decree 87/2015 (IV.9.) on the implementation of certain provisions of Act CCIV of 2011 on national higher education
 - d) 423/2012. (XII.29.) Government Decree on the Higher Education Admission Procedure
 - e) 387/2012. (XII.19.) Government Decree on Doctoral Schools, the Order of Doctoral Procedures and Habilitation
 - f) 51/2007.(III.26.) Government Decree on the Benefits of Students Participating in Higher Education and the Fees to be Paid by Them
 - g) 137/2008. (V. 16.) Government Decree on state-recognized language examinations certifying foreign language proficiency and on the naturalization in Hungary of language examination certificates certifying foreign language proficiency issued abroad
 - h) the self-assessment criteria and procedure of the Hungarian Accreditation Committee (hereinafter: MAB)
- (2) The personal scope of the Rules of Procedure extends to the students of the Kerpely Antal Doctoral School of Materials Sciences and Technologies (hereinafter: Doctoral School) and to university employees involved in work related to doctoral training.
- (3) The temporal scope of the Rules of Procedure: from the date of entry into force until revocation.

Chapter II

TRAINING PLAN

Introduction to the Doctoral Training at the Doctoral School

3. §

- (1) The doctoral training can be conducted within the framework of scholarship and self-funded training, and successful completion is proven by obtaining an

absolutorium.

- (2) In the first four semesters of the training, the Candidate must complete a total of four exams and two mandatory 2-credit subjects (Research Theory, Scientific Database Management).
- (3) During the training, a total of at least seven public research seminars must be completed: three in the training and research phase, for which a maximum of 15 credits/research seminar can be awarded, and another four in the research and dissertation phase, for which a maximum of 20 credits/research seminar can be awarded.
- (4) The training and research phase is concluded by the complex exam (25 credits).
- (5) A certificate of discharge may be issued upon full completion of all requirements, with a minimum of 240 credits. (6) The number of credit points to be obtained is shown in the following table:

**The educational plan of the
Antal Kerpely Doctoral School of Materials Science and Technology**

	Educational and research phase				Research and dissertation phase				Total
	1.	2.	3.	4.	5.	6.	7.	8.	
Number of core courses	min. 1 max. 2	min. 1 max. 2	min. 1 max. 2	-	-	-	-	-	4
Credits/subjects	10	10	10						40
Art of doing science	2	-	-	-	-	-	-	-	2
Scientific database management	-	2	-	-	-	-	-	-	2
Complex planning	-	-	-	25	-	-	-	-	25
Research Seminar	1	1	1	-	1	1	1	1 ¹	6/7
Credits/Seminars	15	15	15	-	20	20	20	20	In the first 2 years 45 credits, in the second 2 years 60/80 credits
Number of	max.	max.	max.	-	-	-	-	-	max. 6

¹ the 7th Research Seminar can be replaced by the 'home defense'

optional subjects	2	2	2						
Credits/optional subjects	2	2	2	-	-	-	-	-	max. 12
Publications credits	min. 10 credits								min. 55 credits
Participation in institutional research	2	2	2	-	5	5	5	5	max. 26
Teaching activity hours/semesters	max. 5	max. 5	max. 5	-	max. 5	max. 5	max. 5	max. 5	max. 30
Credits/hours	max. 5	max. 5	max. 5	-	max. 5	max. 5	max. 5	max. 5	max. 30

Provisions to the publication activity

4. §

- 1) The following credits can be given for the publication activity – on the basis of the copy of the article or the conference program submitted to the Doctoral Educational Committee:

- international qualified journal article
 - published article in Q1 journal 40 credits
 - published article in Q2 journal 30 credits
 - published article in Q3 journal 20 credits
 - published article in Q4 journal 10 credits

Q1-Q4 categories from the Scimago are accepted by the Educational Committee (that ranking will be accepted which is better for the author: rank of the publication year or the year of the submission of the paper – it has to be mentioned in the published article).

In these categories only the first author get credits. In case of the other categories the credits are independent of the number of co-authors.

- reviewed article published in non Q ranking journal 6 credits
- Hungarian journal article in foreign language 6 credits
- article in Hungarian journal 4 credits
- foreign language article in international conference book 5 credits
- presentation on international conference 4 credits
- presentation on Hungarian conference 2 credits

- 2) Only those articles can be into account which are available publicly in printed or in electrical form.

- 3) An article is considered to be a publication with at least 4 pages in print and standardized outline – introduction, experiments, results, conclusions, references). This condition does not apply to scientific journals Q1 and Q2.

- 4) The Doctoral School

- a. make no distinction between oral presentation and poster, both of which are credited according to the 'presentation'
- b. in case of registered patent 10 credits available
- c. in case of handed in patent 4 credits available the Council recognize those

conferences as international where the majority of the participants are foreign, the language of the presentation are English, German or Russian but not Hungarian.

- 5) It is expected that the PhD student collects at least 90 credits until the complex exam, among this at least 10 credits should be in publication (articles, presentations). During the entire four-year training period minimum 55 credits must be earned from publications. **The credit value of publications is only given to the first authors in each category. A minimum of 55 credits must be earned from publications during the entire four-year training period. In the case of co-authors, 2 credits can be counted for research collaboration a maximum of 2 times per semester.**
- 6) The electronic and printed published articles shall be awarded the same credit.
- 7) The doctoral dissertation procedure shall take into account the data in the MTMT database in the evaluating the scientific publishing activity. The publishing activity shall be demonstrated by the data contained in the MTMT. Those scientific works that are not included in the MTMT database shall not be taken into account in the evaluation of the scientific publishing activities of the lecturers, researchers or PhD students.

Conditions for scholarship holders and fee-pay students

Admission requirements

1. Applicants must meet the general requirements for admission as specified in Section 1 of Annex 16 of the University Doctoral Regulations.
 - a) You can apply every year not later than the central defined date by filling the downloadable form from the website of the University or the Doctoral School and attaching the necessary documents in accordance with the above regulation,
 - b) applications must be submitted to the Secretariat of the Vice-Rector for Research and International Relations who send them to the Chairman of the Doctoral Council,
 - c) The Chairman of the Doctoral Council appoints and invite the chairman and members of the selection committee an, in consultation with them informs the candidates about the time and place of the oral examination
 - d) The Selection Committee takes an oral examination with the candidate and ascertains the candidate's professional knowledge, conception of his/her doctoral work, previous scientific activities and knowledge of languages
 - e) The Committee uses the attached score sheet and grades the candidate's performance up to 100 points and rank them after these points. Then the Committee recommends or not recommends their admission. For the admission at least 60 points are required but it does not mean the automatic admission
 - f) The Doctoral Council proposes the admission according to the scholarship limits received from the University Doctoral Council and other possibilities and capacities of the Doctoral School. The final admission is decided by the

University Doctoral Council.

I. Educational and research phase

Provisional, must be submitted credits before the complex exam:

- | | |
|--|---------------------|
| 1. Four core subjects – | 4 x 10 = 40 credits |
| 2. Two optional subjects (Art of doing science and Scientific database management) must be fulfilled – | 2 x 2 = 4 credits |
| 3. Publishing activity - | min. 10 credits |
| 4. Three research seminar - | 3 x 15 = 45 credits |
| Fulfilling Must be completion at least 90 credits | |
| 5. Complex planning subject - | 25 credits |
| Can be accomplished by the above: 124 credits | |

Credits in excess of required credits:

- | | |
|--|-------------------------|
| 1. Completion of elective courses - | max. 3 x 2 = 6 credits |
| 2. Participation in institutional researches - | max. 3 x 2 = 6 credits |
| 3. Participation in education - | max. 3 x 5 = 15 credits |

II. Research and dissertation phase

Conditions for starting the II. phase:

- During the educational and research phase in the first four semesters must be completed 120 credits, including all study credits
- Completing the complex exam

Required credits needed to the final certificate

- | | |
|--|---------------------|
| 1. Four research seminars - | 4 x 20 = 80 credits |
| (the last one can be replaced by the 'home defense' with no credits, in this case 3 x 20 = 60 credits) | |
| 2. Publication performance - | min. 45 credits |
| Must be completion at least 240 credits | |
| Can be accomplished by the above: 125 credits | |

With the compulsory credits can be completed altogether in the I. and II. phase:

$$124 + 125 = 249 \text{ credits}$$

Credits beyond required credits:

- | | |
|--|-----------------|
| 1. Participation in institutional researches - credits | max. 3 x 5 = 15 |
| 2. Participation in education - credits | max. 3 x 5 = 15 |

Required: min. 240 credits

Conditions for individual candidates

6. §

- (1) Admission requirements Applicants must meet the general admission requirements of the Regulations on Doctoral Training and Doctoral (PhD) Degree Acquisition of the Ministry of Education, Science and Technology, No. 14. as prescribed in the annex
 - a) applications can be submitted until April 15 or November 15 of each year
 - b) applications must be submitted to the General and Scientific Vice-Rector's Secretariat, whose administrator sends the received applications to the President of the Doctoral Council of the Scientific Branch
 - c) the President of the Doctoral Council of the Scientific Branch appoints and invites the President and members of the Admissions Committee, and then, in consultation with them, notifies the applicants of the time and place of the oral entrance examination
 - d) the invited admissions committee - consisting of at least three members - conducts an oral entrance examination with the applicant for admission, and ascertains the Candidate's professional knowledge, ideas related to his/her doctoral work, previous scientific activities, and language skills
 - e) the committee evaluates the performance of the applicants using the attached scoring sheet, ranks them based on these, and recommends or does not recommend their admission; for admission, min. A score of 120 points is required according to the attached scoring sheet, including publication requirements, but achieving this does not mean automatic admission
- (2) Conditions for admission to the complex examination and credits that can be taken into account:
 - a) The Doctoral Council of the Scientific Field decides on the admission of the applicant for individual preparation based on the proposal of the admission committee.
 - b) To be admitted to the complex examination, the applicant must submit the completed application form and its attachments by the end of the academic year
 - credit certificate: in this case, it can be replaced by the admission decision
 - MTMT data: the general table downloaded by the student from MTMT and the bibliographic data of the publications there, including references
 - supervisor's recommendation (minimum of one A/4 page): the evaluation presents the doctoral student's work so far, his most important scientific results, his cooperation with the supervisor, and also states whether he recommends the applicant's participation in doctoral training
 - scientific research report and plan (as stipulated in the complex examination procedure) to the Dean's Office in printed, signed form and also electronically

III. Research and dissertation phase

Conditions for starting the II. phase:

3. During the educational and research phase in the first four semesters must be completed 120 credits, including all study credits
4. Completing the complex exam

Required credits needed to the final certificate

3. Four research seminars - 4 x 20 = 80 credits
 (the last one can be replaced by the 'home defense'
 with no credits, in this case 3 x 20 = 60 credits)
4. Publication performance - min. 45 credits
 Must be completion at least 240 credits
 Can be accomplished by the aboves: 125 credits

With the compulsory credits can be completed altogether in the I. and II. phase:

$$124 + 125 = 249 \text{ credits}$$

Credits beyond required credits:

3. Participation in institutional researches - max. 3 x 5 = 15
 credits
4. Participation in education - max. 3 x 5 = 15
 credits

Required: min. 240 credits

Chapter III

Complex Examination Regulations

7. §

(1) The conditions for applying for the complex examination are: A. in the case of scholarship and self-financed students, obtaining 90 credit points, which can be completed by a) the exams of the four compulsory subjects and optional subjects, b) three research seminars, and c) at least 10 credits from publications, B. in the case of individual candidates, proof of having 120 credit points based on the application score sheet approved by the admissions committee.

(2) Applying for the complex examination:

- a) at the beginning of the current semester, the student takes the subject "Complex Design" in Neptun (the subject responsible is the student's scientific supervisor, or the head of the subject area, or the head of the doctoral school), and at the end of the academic period, obtains the signature from the subject "Complex Design". The condition for obtaining the signature is the preparation, written submission and oral presentation of the scientific research report and plan,
- b) by the end of the academic period of the current semester, submit the

completed application form and its annexes (credit certificate, MTMT data, supervisor's recommendation, scientific research report and plan) in printed, signed form and electronically to the Dean's Office:

- the credit certificate on the acquisition of 90 credits with the details according to point (1) is issued by the Dean's Office with the signature of the head of the Doctoral School;
- the General table and bibliographic data of the publications downloaded by the student from MTMT, including references;
- supervisor's recommendation (see paragraph 7);
- scientific research report and plan (see paragraph 8),

(3) The date of the complex exam is set by the Doctoral School Council and made public at least 2 weeks before the exam.

(4) The complex examination must be completed in Hungarian or English. If a Hungarian-speaking doctoral student applying for the examination prepares the "dissertation" part of the study to be submitted in English, the examination will be conducted in Hungarian or English, according to the student's choice. If a non-Hungarian-speaking student applies for the complex examination, all elements of the examination can also be completed in English (the candidate must state this request when applying for the complex examination).

(5) The complex examination consists of two main parts:

a) theoretical part: the doctoral student provides an account of his/her knowledge of the literature of the discipline, and of his/her current theoretical and methodological knowledge. He/she will take an examination in at least two subjects/topics, the list of subjects/topics is included in the doctoral school's training plan.

b) dissertation part: the doctoral student reports on his/her research results, describes his/her research plan for the second stage of the doctoral training, and the schedule for preparing the dissertation (its formal and content requirements are included in Appendix 5) and publishing the results. The doctoral student presents his/her scientific research report and plan in a lecture and – prior to the examination – in writing.

(6) The complex exam must be taken in public, before a committee. The examination committee consists of three members, at least one of whom may not be in an employment relationship with the University of Miskolc.

a) The examination committee is appointed and requested by the Doctoral Council within two weeks after the application deadline for the exam.

b) The chairman of the examination committee is a university professor or habilitated associate professor, habilitated college professor, Professor Emeritus, or a lecturer or researcher with the title of Doctor of Science, Doctor of the Hungarian Academy of Sciences of the University of Miskolc. The committee is assisted in its work by a recorder who is not a member of the committee but holds an academic degree.

c) All members of the examination committee hold an academic degree. The candidate's supervisor may not be a member of the committee, but is required to evaluate the doctoral student's work in writing beforehand and

orally during the complex exam.

- d) The committee is not composed of the subject examiners, but is assisted in its work by the reviewer of the written report, who is preferably the same as the reviewer of the research seminar. The reviewer prepares a written review in advance, and his/her personal presence is not a condition for taking the complex exam.
- (7) The supervisor's preliminary written evaluation must be attached to the application form for the complex exam (it forms an annex to it). The evaluation presents the doctoral student's work so far, his/her most important scientific results, and his/her cooperation with the supervisor. It states whether he/she recommends the student to continue participating in the doctoral training. The supervisor's evaluation is at least one A/4 page long.
- (8) The requirements for the length and form of the doctoral student's scientific research report are the same as those for the research seminar paper.
- a) The cover of the papers must indicate the name of the Doctoral School, the name of the doctoral student, his/her supervisor, and the name of his/her institute.
 - b) The report must be prepared in A/4 size, with a maximum font size of 12 and 1.5 line spacing, with a minimum of 20 and a maximum of 30 pages.
 - c) Tables and figures must be provided with continuous numbering and titles. A bibliography should be attached to the report; annexes may be attached. We recommend that the bibliography be prepared in the usual format in the field.
- (9) The examination board evaluates the theoretical and dissertation parts of the exam separately. It prepares a detailed report on the complex exam, including a textual evaluation of the doctoral student's work from a scientific perspective, signed by the members. The results of the exam must be announced on the day of the oral exam.

Evaluation of the complex exam:

- A) The examination board evaluates the theoretical and dissertation parts of the exam separately and decides on their acceptance with a score of 1-2-3-4-5. The complex exam is successful if the candidate passes both parts of the exam with at least 60%. The evaluation of the complex exam is two-stage: it can be graded as passed or failed.
- B) The results of the exam must be announced on the day of the oral exam.
- C) A report containing a detailed assessment of the conditions for admission to the complex examination and the findings of the examination is prepared, which qualifies the doctoral student's previous and expected performance according to the complex requirements. This document must be submitted in its entirety to the General and Scientific Vice-Rector's Secretariat.
- D) The report includes:
 - a) the name of the higher education institution, its institutional identifier,
 - b) the doctoral student's name, student identification number, previous level of education and professional qualifications,
 - c) the supervisor's name and instructor identifier,

- d) the scientific field and discipline of the degree to be obtained,
 - e) the questions asked in the complex examination and the qualification of the answers,
 - f) the qualification of the complex examination, g) the name, instructor identification number and signature of the chairman and members of the complex examination committee.
- (10) After a successful examination, the doctoral student may continue his/her studies.
- (11) The doctoral student may repeat the failed complex examination once, in the same examination period. If the doctoral student does not repeat the complex examination in the given examination period, or if the repeated complex examination is again unsuccessful, the doctoral student's student status shall be terminated.

RULES FOR RESEARCH SEMINARS

8. §

- (1) The Candidate proves his/her progress in his/her research topic with the Research Seminar. During the study at least seven public research seminar has to fulfil; three of them during the educational and research section, with maximum 15 credits/each and four more ones in the research and dissertation phase with 20 credits/each.
- (2) The formal requirements of the research reports submitted by the PhD student of the Doctoral School are the follows:
- a) Reports must be submitted in one copy in bound form to the Dean Office and one electronic copy (pdf) to that e-mail address which specified in the notification letter. Reports can only be accepted or submitted for review if they are signed by the supervisor(s).
 - b) On the cover page of reports should be written the name of the Doctoral School, the number of the research seminar and the name of the PhD student, the supervisor(s) and also the institute.
 - c) Reports must be written in A/4 size with maximum 13 font size, 1.5 line spacing at least 20 and a maximum of 30 pages.
 - d) Tables and figures shall be sequentially numbered and titled. To the report can be related references, annexes. The bibliography is recommended as follows:
 [Number] Author(s): Title, Place, Date, Page Number
- (3) The Head of the Doctoral School shall submit the written material of the research seminar to a lecturer or researcher who is familiar with the subject. The student receives the evaluation before the presentation. In order to follow the progress of the research topic, the PhD student's research seminar papers regularly review the same lecturer, if possible.

- (4) Successful completion shall be certified by the minutes of a common seminar organized at the following month after the end of educational period in each semester.
- (5) Research seminars are for the preparation to make the dissertation and form an appropriate thematic system. Members of the Doctoral Council should be invited to the research seminars.
- (6) Research seminars are organized by the Dean Office.
- (7) Evaluation of the research seminars:
 - a) The research seminar report may only be submitted for presentation at the seminar if it has been evaluated by the reviewer for more than 60%. In case of a grade of 60% or less the report may only be presented at a next seminar after consideration by the reviewer and correction, and for a newer grade of more than 60%.
 - b) The research seminars will be evaluated by the graduated members of the audience after the lecture and discussion. The head of the concerned topic field shall ensure that at least one professionally competent representative of the field is present at the research seminar in addition to the supervisor. If this condition is not met, the PhD student's research seminar cannot be evaluated. The audience will score 10 points during the seminar.
 - c) If the evaluation of both parties are over 60%, 15 credits in the 1-3 semesters and 20 credits in the 5-8 seminars can be achieved per semesters for completing the research seminar.
 - d) Complex exam and pre-defense replace the obligation of the research seminar in the given semester.
- (8) Methodology for the evaluation of research seminar papers:
 - a) Must be at least 2500 characters long
 - b) Consider to the relation of the report of the PhD student's research topic (0-10 points)
 - c) Explain the structure of the report, its clarity and the comprehension of the used professional terms (0-10 points)
 - d) Evaluate the level of professional literature: using of references, processing of the recent publications in prestigious journals, presentation of professional relevant to the topic (0-20 points)
 - e) Qualify the elaboration of the research topic: presentation of the experiments carried out (or taken from the literature), the professionalism and interpretation of the own diagrams, tables, images (0-30 points)
 - f) Evaluate the summary of the report, the conclusions and future ideas (0-30 points)
 - g) Include at least two questions to be answered by the PhD student at the research seminar.

If the total score is above 95 points or below 60 points then justification must be provided. The % qualification is the points from the maximum available 100 points. The evaluation sheet is attached.

- (9) The research seminar may be supplemented twice during the entire training period on an additional research seminar.

Chapter V

FINAL AND ENFORCEMENT PROVISIONS

9. §

These Rules of Procedure were adopted by the Discipline Doctoral Council of the University of Miskolc with the decision 36/2024.(III.18.) and effect from 1 May 2024.

Miskolc, 1 May 2024

Prof. Dr. Valéria Mertinger
Head of the Doctoral School

Prof. Dr. Zoltán Gácsi
President of the EDT

ANNEXES:

1. Admission score sheet for applicants for scholarship and self-funded training
2. Admission score sheet for applicants participating in international training
3. Application form for complex examination
4. Research seminar evaluation form
5. Formal and content requirements of the doctoral dissertation (dissertation) and thesis booklet

Annex 1.

FELVÉTELI PONTOZÓLAP

Kerpely Antal Anyagtudományok és Technológiák Doktori Iskola PhD képzésére jelentkezők értékelésére

Jelölt neve:		Egyetemi oklevél:	
Képzés:		Téma címe:	
Tudományos vezető:		Tématerület:	

1. Tanulmányi munka értékelése (max. 30 pont)

		Érdemjegy	Pont faktor
MSc	Diplomamunka osztályzat		2
	Zárvizsga tárgyak átlaga		2
	Összes tantárgy kummulative átlag MSc, BSc		-3

Összesen: 0,00 pont

2. Tudományos-szakmai tevékenység értékelése (max 20 pont)

2.1 TDK tevékenység

	Helyezés					Pont faktorok				
	I	II	III	Különdj	Nem dij.	I	II	III	különdj	Nem dij.
Egyetemi						5	3	2	1	0
Országos						10	5	3	3	1
								0		

0 pont

2.2 Demonstrátori megbízás: (max. 10)

Félévek száma	Pont
	2

0

0 pont

2.3 Publikációs tevékenység

Publikáció	Darab	Pont faktor
Poszter		
Előadás magyar nyelven		2
Előadás idegen nyelven		4
Hazai konf. kiadvány cikk		2
Hazai idegen ny. konf. Kiadvány		3
Nemzetk. konf. kiadv. cikk		5
Hazai folyóirat cikk		4
Nemzetközi folyóirat cikk		
Szabadalom		

magyar: 3, idegenny: 4

(min. 6 oldal)

(min. 6 oldal)

idegen nyelven, Q1: 40,
Q2: 30, Q3: 20, Q1: 10,
Q0: 6)

benyújtott: 4, elfogadott 10

0 pont

0

Összesen: 0,00 pont

3. Nyelvvizsga (max.5 pont)

	Alap	Közép B2	Felső	Pont faktor		
angol				1	3	5
További				1	3	5

0

Összesen: 0,00 pont

4. A Felvételi Bizottság előtt megtartott idegen nyelvű előadás (max. 15 pont)

Adott pontszám:	
-----------------	--

Összesen: 0,00 pont

5. A beadott szakmai anyagok, a tervezett kutatási témáról szóló ppt előadás és az általános elbeszélgetés átfogó képe (max. 30 pont)

Adott pontszám:	
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Összesen: 0,00 pont

Összes megszerzett pontszám (max. 100 pont)

Összesen: 0,00 pont

Annex 2.

ADMISSION									
Antal Kerpely Doctoral School of Materials Science and Technology									
Name:									
Type:									
Supervisor:									
Co supervisor:									
Title:									
Research area:									
Institute 1:									
Institute 2:									
Diploma:									
Date admission:									
Starting date:									
Neptun code:									
Passive semesters:									
Professional intelligence (based on the transcript and conversation)									
Suitability for research work (based on the submitted written material and discussions):									
Language skills (based on submitted documents and conversations):									
Technical article or other recognized scientific activity:									
Average score									

Annex 3.



(1837-1907)

APPLICATION FORM to Complex Exam

University of Miskolc, Faculty of Materials Science and Engineering
 Antal Kerpely Doctoral School of Materials Science and Technology

Personal data	
Name	
Birth place and date	
NEPTUN code	
Title of the doctoral theme	
Supervisor(s) name	
<u>Theoretical part:</u> two subjects name and NEPTUN code	
<u>Dissertation part:</u> chosen language (underlined)	Hungarian / English
Attachments to the application form	
Credit certificate (90 credits)	Issued by the Dean Office with the signature of the Head of the Doctoral School
MTMT general table or Google Scholar profile with the reference datas of the publications printed from the MTMT or Google Scholar, endorsed by the candidate	Must be submitted at least by the end of the semester
Supervisor's recommendation	Must be submitted at least by the end of the semester
Scientific resesearch report and plan	Must be submitted at least by the end of the semester

Miskolc,

.....
signature of the student

I know the supervisor tasks related to the complex exam and I support the application.

Miskolc,

.....
signature of the superivsor

Annex 4.


Evaluation sheet

 Antal Kerpely Doctoral School of Materials Science & Technology
 for written research seminar work


Title and serial number of the research seminar

Author

Supervisor(s)

Reviewer

1. General evaluation that includes at least two questions to be answered by the PhD student at the research seminar (1000-2500 character)		
	Typed character:	0
2. The connection of the thesis to the PhD student's research topic (0-10 points) (250-500 character)	Points:	
	Typed character:	0
3. The structure, clarity of the thesis and the use and understandability clarity of professional terms (0-10 points) (250-500 character)	Points:	
	Typed character:	0
4. The quality of the literature overview: the professional use of references, the processing of fresh/new publications in prestigious journals, the presentation of the relevant professional content regarding to his/her research topic a (0-20 points) (500-1000 characters)	Points:	
	Typed character:	0
5. Development of the research topic: presentation of the experiments carried out (or from literature) , the professionalism of own drawings (or from the literature) , diagrams, tables and photographs (0-30 points) (500-1000 characters)	Points:	
	Typed character:	0
6. Overall impression, summary of the dissertation, its conclusions, and future ideas (0-30 points) (500-1000 character)	Points:	
	Typed character:	0
Total score (max. 100 points).		0,0

According to the Regulations: "(7) Evaluation of research seminars:
a) A research seminar paper may only be submitted for presentation at a seminar if it has been evaluated by the reviewer for more than 60%. At or below 60%, the dissertation will only be evaluated at the next seminar, after consideration and correction of the reviewer's suggestions for change, and another 60% can be given for presentation.

Please note:
If the total score is above 95 points or below 60 points then
justification is required
(250-500 characters)

Typed character:

0

Date

 Signature of the
Reviewer

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



PhD dissertation

Name of the Author
(highest degree, e.g. MSc in Materials science)

Miskolc, year

Inner cover

Antal Kerpely Doctoral School of Materials Science and Technology



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

Antal Kerpely Doctoral School of Materials Science and Technology



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