

ORDER No. 5110/2018 of 17 September 2018

on the approval of the minimum national standards for the award of the doctoral degree

ISSUER: MINISTRY OF NATIONAL EDUCATION

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Pursuant to art. 168 of the National Education Law no. 1/2011, as subsequently amended and supplemented, and art. 66 and 68 of the Government Decision no. 681/2011 regarding the approval of the Code of Doctoral Studies, with subsequent amendments and completions,

Taking into account the provisions of art. 23 of Annex no. 1 to the Regulation on the organization and functioning of the National Council for the Attestation of Titles,

University Diplomas and Certificates, approved by the Order of the Minister of National Education and Scientific Research no. 3.482/2016, as subsequently amended, pursuant to Government Decision no. 26/2017 on the organization and functioning of the Ministry of National Education, with subsequent amendments,

**The Minister of National Education** issues this order.

#### ART. 1

The national minimum standards for awarding the doctoral degree represent a set of 35 standards specific to the doctoral fields assigned to the specialized commissions of the National Council for the Attestation of Titles, Diplomas and University Certificates, hereinafter referred to as CNATDCU.

#### ART. 2

CNATDCU proposes to the Ministry of National Education the minimum national standards for granting the title of doctor. ART. 3

The Ministry of National Education approves the minimum national standards for granting the doctoral degree, provided in annexes no. 1 - 35, which are an integral part of this Order, as follows: - Annex no. 1 - Mathematics Commission;

- Annex no. 2 - Informatics Commission;
- Annex no. 3 - Physics Commission;
- Annex no. 4 - Chemistry Commission;
- Annex no. 5 - Earth Sciences Commission;
- Annex no. 6 - Civil Engineering and Management Commission;
- Annex no. 7 - Materials Engineering Commission;

- Annex no. 8 - Commission for Chemical Engineering, Medical Engineering, Materials Science and Nanomaterials;
- Annex no. 9 - Electrical Engineering Commission;
- Annex no. 10 - Energy Engineering Commission;
- Annex no. 11 - Committee on Electronics, Telecommunications and Nanotechnology; - Annex no. Art. 12 - The Commission for Geological Engineering, Geodesic Engineering, Mining, Oil and Gas;
- Annex no. Art. 13 - Aerospace, Automotive and Transport Engineering Commission;
- Annex no. Art. 14 - Commission for the Engineering of Plant and Animal Resources; - Annex no. Art. 15 - Committee on Computers, Information Technology and Systems Engineering;
- Annex no. Art. 16 - Industrial Engineering and Management Commission;
- Annex no. Art. 17 - Commission for Mechanical Engineering, Mechatronics and Robotics;
- Annex no. 18 - Environmental Engineering Commission;
- Annex no. 19 - Biology and Biochemistry Commission;
- Annex no. 20 - The Medicine Commission;
- Annex no. 21 - Veterinary Medicine Commission;
- Annex no. 22 - Dental Medicine Commission; - Annex no. 23 - Pharmacy Commission;
- Annex no. Art. 24 - The Commission for Legal Sciences;
- Annex no. Art. 25 - Commission for Sociology, Political and Administrative Sciences;
- Annex no. Art. 26 - Commission for Military Sciences, Intelligence and Public Order;
- Annex no. Art. 27 - Commission for Economic Sciences and Business Administration; - Annex no. Art. 28 - Commission for Psychology, Educational Sciences, Physical Education and Sport;
- Annex no. 29 - Philology Commission;
- Annex no. Art. 30 - Philosophy Commission;
- Annex no. Art. 31 - The Commission for History and Cultural Studies; - Annex no. Art. 32 - Theology Commission;
- Annex no. Art. 33 - Architecture and Urban Planning Commission;
- Annex no. Art. 34 - Visual Arts Commission;
- Annex no. Art. 35 - Performing Arts Commission.

ART. 4

- (1) In relation to their own academic needs, higher education institutions and the Romanian Academy may adopt their own standards for granting the doctoral degree, in order to formulate the proposal for granting the doctoral degree by the doctoral committee.
- (2) If the higher education institution or the Romanian Academy decides to adopt its own standards for awarding the doctoral degree, they are approved by the university senate/Presidium of the Academy and published on the institution's website.
- (3) The own standards for granting the doctoral degree are optional and are above the minimum level of the national standards for the evaluation of the files for granting the doctoral degree, approved by this Order. ART. 5

The minimum national standards for granting the doctoral degree apply to doctoral students enrolled in doctoral studies starting with the academic year 2018 - 2019, by expressly specifying them in the doctoral study contracts. ART. 6

General Directorate of University Education within the Ministry of Education  
The National Council for the Attestation of University Titles, Diplomas and Certificates, higher education institutions and the Romanian Academy will carry out the provisions of this order. ART. 7

This Order is published in the Official Gazette of Romania, Part I.

The Minister of National Education,  
**Valentin Popa**

Bucharest, September 17, 2018.  
No. 5.110.

ANNEX 1

**MATHEMATICS COMMISSION**

**Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication or acceptance for publication (with proof of acceptance) of at least one article in journals indexed in Web of Science;

2. participation and defense of at least two scientific papers at international conferences proven by the conference program;
3. publishing/accepting an article as an author/co-author in an ISI journal.

## ANNEX 2

### **INFORMATICS COMMISSION**

#### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication or acceptance for publication (with presentation of proof of acceptance) of at least one article in ISI indexed journals from the UEFISCDI list or in SCOPUS indexed journals;
2. participation and defense of at least two scientific papers at international conferences proven by the conference program;
3. Recognized conferences are those indexed in the following databases: SCOPUS, IEEE, ACM, SPRINGER, DBLP, CiteSeerX, Zentralblatt, MathSciNet, COPERNICUS, EBSCO and ProQuest.

## ANNEX 3

### **PHYSICS COMMISSION**

#### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication or acceptance for publication (with the presentation of proof of acceptance) of at least two papers in ISI indexed journals, one of which may be replaced by an oral presentation at an international conference, proven by the conference program;
2. for at least one of the papers, the doctoral student must be the first author, but in this case the articles for which the authors are indicated in the alphabetical order of the name and the candidate is the first author exclusively due to his name and alphabetical order are not taken into account;

3. in the case of HEPP (High Energy Particle Physics) publications with a large number of authors, if the article is based on an internal note whose approval for submission for publication was supported by the author, then the author is considered the first author; 4. the value of the impact factor of publications must be  $FI \geq 0.5$ .

#### ANNEX 4

### **CHEMISTRY COMMITTEE**

#### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication of at least two articles in publications rated with impact factor ISI;
2. the cumulative impact factor (FIC) of the journals in which the articles are published must be at least 1.5 or there must be at least one article published in journals in the Q3 ISI area, and the doctoral student must be the first author at least one article published in an ISI listed journal;
3. the doctoral supervisor must be co-author with the doctoral student of at least one article published in an ISI-listed journal.

#### ANNEX 5

### **COMMISSION ON EARTH SCIENCES**

#### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, the following conditions must be met:

1. Geography field - publication of at least one article in ISI listed journals (WoS and/or Arts & Humanities) and at least one article in BDI indexed journals as first author;
2. Geology field - publication or acceptance for publication of at least two articles (with the presentation of proof of acceptance) that meet the following cumulative conditions:

- a) at least one article to be published in a journal rated with an FI impact factor  $\geq 1$ ;
- b) for at least one published article, the doctoral student must be first author, sole author or corresponding author;
3. Environmental Science - publication of at least one paper in an ISI journal (with  $FI > 0$ ) as first author and publication of at least one paper in a BDI indexed publication.

#### ANNEX 6

### **CIVIL ENGINEERING AND MANAGEMENT COMMISSION**

#### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication of at least three articles, of which at least one article in journals indexed in international databases (BDI - Scopus, Wiley, Springer, Science Direct, IEEE, Engineering Village, Proquest, EBSCO) or in the volumes of scientific manifestations indexed BDI;
2. the doctoral student's publications must be in the doctoral field and in accordance with the theme of the doctoral thesis;
3. The publications will be specified in the doctoral thesis when disseminating the research results.

#### ANNEX 7

### **MATERIALS ENGINEERING COMMISSION**

#### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication of at least two papers in the journals and/or volumes of conferences, indexed in international databases (BDI);
2. the recognized international databases (BDIs) are as follows: ISI Thomson Reuters Web of Knowledge, SCOPUS, Chemical Abstracts,

ProQuest/CSA Cambridge Scientific, EBSCO (Academic Search Premier, Elsevier Bibliographic Database), Metals Abstracts CSA/METADEX, Compendex, INSPEC, Science Direct Database Elsevier, Engineering Index, IEEEXplore, Scientific. Net (Materials Science and Engineering), Springerlink, Engineering Village, Emerald and the Romanian journals specific to the field of CNCSIS recognized materials engineering in categories A and B+.

## ANNEX 8

### **COMMISSION ON CHEMICAL ENGINEERING, MEDICAL ENGINEERING, MATERIALS SCIENCE AND NON-MATERIALS**

#### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication of at least two scientific articles in ISI listed journals that simultaneously meet the following conditions:
  - a) the sum of the impact factors of the journals in which it was published (considered at the date of publication) to be  $FI \geq 1.5$ ;
  - b) the articles should include data presented in the doctoral thesis;
  - c) for at least one article, the doctoral student must be the first author;
  - d) the doctoral supervisor must be a co-author of at least one article;
2. the recognized conferences indexed in international databases (BDI) are the following: ISI Thomson Reuters Web of Knowledge, SCOPUS, Chemical Abstracts, ProQuest/CSA Cambridge Scientific, EBSCO (Academic Search Premier, Elsevier Bibliographic Database), Metals Abstracts CSA/METADEX, Compendex, INSPEC, Science Direct Database, Elsevier, Engineering Index, IEEEXplore, Scientific. Net (Materials Science and Engineering), Springerlink, Engineering Village, Emerald and the Romanian journals specific to the field of Materials Engineering recognized CNCSIS in categories A and B+.

## ANNEX 9

### **ELECTRICAL ENGINEERING COMMISSION**

### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication in extenso of at least two papers, on the subject of the thesis, in journals and/or in the volumes of scientific manifestations indexed in Web of Science (WoS) Core Collection Thomson Reuters databases and/or in international databases;
2. the recognized international databases (BDIs) are: Scopus, IEEE Xplore, Elsevier Science Direct, Engineering Village, Compendex, INSPEC, Springerlink, Cabi, EBSCO, CSA ILLUMINA/PROQUEST and Index Copernicus and Ulrich's;
3. The doctoral student must be the first author of at least one article

ANNEX 10

### **COMMISSION ON ENERGY ENGINEERING**

#### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication of at least two papers, of which at least one in journals or publications of Web of Science (WOS) indexed conferences and at least one published in other international databases (BDI);
2. the doctoral student must be the first author of at least one scientific article;
3. the international databases (IDBs) considered for articles published in journals and volumes of scientific events are the following: Scopus, IEEE Xplore, Elsevier Science Direct, Engineering Village, Compendex, INSPEC, Springerlink, Cabi, EBSCO, CSA ILLUMINA/PROQUEST, Index Copernicus, Ulrich's and INIS (International Nuclear Information System).

ANNEX 11

### **COMMITTEE ON ELECTRONICS, TELECOMMUNICATIONS AND NANOTECHNOLOGY**

## **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. the doctoral student must be the author or co-author of at least four published papers, on the subject of the thesis, in journals or volumes of international conferences indexed in BDI recognized in the field;
2. at least one of the published works on the subject of the thesis must be published in an ISI listed journal or at least two of the works must be published in journals/volumes of ISI indexed conferences;
3. the doctoral student must be the first author of at least two of the published works on the subject of the thesis;
4. in the field of Electronic Engineering and Telecommunications, the following international databases (BDI) are recognized: ISI, Scopus, IEEE (Institute of Electrical and Electronics Engineers) Xplore, Science Direct, Elsevier, Springerlink, ACM (Association for Computing Machinery), DBLP and EURASIP.

ANNEX 12

## **COMMISSION ON GEOLOGICAL ENGINEERING, GEODESIC ENGINEERING, MINING, OIL AND GAS**

### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication of at least three articles on the subject of the thesis:
  - a) at least one article must be published in journals indexed in international databases (BDI);
  - b) at least two articles to be published in the volumes of indexed scientific events (BDI), proven by the conference program;
2. the recognized international databases (BDIs) are the following: Scopus, Wiley, Springer, Science Direct, IEEE, Engineering Village, Proquest, EBSCO, Google Scholar and Copernicus Index.

ANNEX 13

## **AEROSPACE, MOTOR VEHICLE AND TRANSPORT ENGINEERING COMMISSION**

### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication of at least four papers in specialized journals or volumes of conferences/congresses, of which:
  - a) at least one article must be published in journals listed in ISI Proceedings (as first author);
  - b) at least two articles to be published in the databases mentioned in Annex no. 13 to the Order of the Minister of National Education and Scientific Research no. 6.129/2016 regarding the approval of the minimum necessary and mandatory standards for the conferral of teaching titles in higher education, professional research and development degrees, the quality of doctoral supervisor and the habilitation certificate.

### ANNEX 14

## **COMMISSION FOR PLANT AND ANIMAL RESOURCES ENGINEERING**

### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication in extenso of at least three papers, on the subject of the thesis, in journals or volumes of national or international conferences, indexed (BDI);
2. the doctoral student must be the first author/corresponding author of at least two of the published works on the subject of the thesis, and one of the three necessary works can be equated with a national patent application, registered with OSIM, on the subject of the thesis;
3. the recognized international databases (BDIs) are the following: Scopus, IEEE Xplore, Science Direct, Elsevier, Wiley, ACM, DBLP, Springerlink, Engineering Village, Cabi, Emerald, CSA, Compendex, INSPEC, Thomson Reuters Master Journal List, DOAJ and AGRICOLA.

## ANNEX 15

### **COMMISSION ON COMPUTERS, INFORMATION TECHNOLOGY AND SYSTEMS ENGINEERING**

#### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publishing, as author or co-author, at least three articles in journals or volumes of scientific events indexed Web of Science or in other internationally recognized databases (BDI), of which:

- a) at least two articles must be published/accepted for publication (with the presentation of proof of acceptance) in Web of Science indexed journals, and the PhD student must be the first author;
- b) One of these two articles can be equated with a patent, the doctoral student having the quality of first author.

## ANNEX 16

### **COMMISSION FOR INDUSTRIAL ENGINEERING AND MANAGEMENT**

#### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication in extenso of at least three papers, during the doctoral studies, which meet the following conditions:

- a) at least two published papers, for which the doctoral student is the first author, sole author or co-author;
- b) at least one paper published in a BDI indexed scientific journal;
- c) at least one paper presented by the doctoral student at an international Web of Science (ISI) indexed conference, proven by the conference program;

2. international databases (IDBs) recognized for papers published in journals and published in volumes of scientific events, except for articles published in ISI listed journals, are those internationally recognized scientifically, as follows: ACM, Cabi, CEEOL, CiteSeerX, Compendex/Engineering Village, CRCnetBASE, CrossRef, Current Contents, CSA, DBLP, DOAJ, EBSCO, EdITLib, Emerald, ERIC, Genamics, GeoBase, GEOREF, IEEE Xplore, IFAC-PapersOnLine, Copernicus Index, INSPEC/IET, J-Gate, Library of Congress, MathSciNet, ProQuest, PubMed, Referativnai Journal, RePEc, Elsevier/Scopus, Elsevier/Science Direct, Springerlink, Ulrichsweb, WorldCat, Wiley, Zenodo, Zentrallblatt, Scientific.net and Seek Digital Library.

## ANNEX 17

### **COMMISSION FOR MECHANICAL, MECHATRONIC AND ROBOTIC ENGINEERING**

#### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication or acceptance for publication (with presentation of proof of acceptance) of at least three scientific articles (cited in the bibliography related to the doctoral thesis) of which the doctoral student is the author/co-author, of which:
  - a) at least two articles must be published in Web of Science or SCOPUS indexed publications;
  - b) at least two articles from the doctoral student's list of works, the supervisor of Ph.D. to be co-author;
  - c) for at least two articles in the list of works, the doctoral student is the first author or corresponding author;
2. the articles must be correlated with the theme of the thesis;
3. An article can be equivalent to the realization of an invention (presentation of proof of the official filing of the application for an invention patent based on an application included in the doctoral thesis).

## ANNEX 18

## **ENVIRONMENTAL ENGINEERING COMMISSION**

### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication or acceptance for publication (with the presentation of proof of acceptance) of at least two works on the subject of the thesis in ISI listed journals;
2. The papers reported in the thesis will be published or accepted for publication (with the presentation of proof of acceptance) on the date of the public defense of the doctoral thesis.

ANNEX 19

## **BIOLOGY AND BIOCHEMISTRY COMMISSION**

### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication or acceptance for publication (with presentation of proof of acceptance) of at least two articles in the field of the doctoral thesis, of which at least one of the articles must be published in a journal indexed Web of Scenice BDI as co-author and the second article must be published in a journal indexed BDI as first author;
2. it is accepted that one of the articles is "in press", provided that this is justified by an official document - in original;
3. the recognized international databases (BDIs) are the following: Scopus (Elsevier), Web of Scenice, CAB, ProQuest, EBSCO, CSA/Biological Sciences, Copernicus Index and SpringerLink.

ANNEX 20

## **COMMISSION OF MEDICINE**

## **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication as first author, sole author or corresponding author of at least three scientific articles, containing results from the content of the thesis, of which:

- a) at least one article must be published in an ISI (Clarivate Analytics) journal with FI  $\geq$  0.5;
- b) at least two articles to be published in journals indexed in the PubMed database.

ANNEX 21

## **COMMISSION OF VETERINARY MEDICINE**

### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication as author or corresponding author of at least three scientific articles on the subject of the thesis (at least two articles in extenso) in journals or volumes of national or international conferences indexed BDI, recognized in the field and proven by the conference program, of which one of the three scientific articles can be equated with a national patent application registered with OSIM, from the topic of the thesis;
2. the doctoral student must be the first author/corresponding author of at least two of the published scientific articles on the subject of the thesis;
3. the international databases (BDI) recognized for articles published in journals and in the volumes of scientific events, except for articles published in ISI listed journals, are those internationally recognized scientifically: Scopus, IEEE Xplore, Science Direct, Elsevier, Wiley, ACM, DBLP, Springerlink, Engineering Village, Cabi, Emerald, CSA, Compendex, INSPEC, Referativnai Journal, Thomson Reuters Master Journal List, DOAJ and Google Scholar.

ANNEX 22

## **COMMISSION ON DENTAL MEDICINE**

### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication as first author, sole author or corresponding author of at least two scientific articles, of which:

- a) at least one scientific article to be published in an ISI-listed journal;
- b) at least one scientific article to be published in a journal indexed in PubMed.

ANNEX 23

## **PHARMACY COMMISSION**

### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication of the results of the doctoral thesis, as author, as follows:

- a) at least one article published in an ISI listed journal with an FI > 0.5;
- b) at least two articles published in PubMed or BDI indexed journals or one article published in an ISI listed journal;

2. the articles specified in point 1 letters a) and b) may be of the Original Research type or

Review, but at least two articles must be of the Original Research type;

3. For all scientific articles, the doctoral student must be an author (first author, corresponding author, co-author) and at least one article must be the first author.

ANNEX 24

## **COMMITTEE ON LEGAL SCIENCES**

### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. the doctoral student must have participated in at least three scientific events organized by the doctoral organizing institutions and have published the results of the research in the publications of the conference organizers, proven by the conference program;
2. publication of at least one article in journals indexed in international databases (BDI).

## ANNEX 25

### **COMMITTEE ON SOCIOLOGY, POLITICAL AND ADMINISTRATIVE SCIENCES**

#### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication of at least two articles in journals indexed in international databases (BDI) or at least two book chapters in volumes published by a publishing house in the A1 category (publishing houses with international prestige) or A2 (publishing houses with recognized prestige), from Annex no. 25 to the Order of the Minister of National Education and Scientific Research no. 6.129/2016 regarding the approval of the minimum necessary and mandatory standards for the conferral of teaching titles in higher education, professional research and development degrees, the quality of doctoral supervisor and the habilitation certificate;
2. the recognized international databases (BDIs) are: ISI Web of Science, SCOPUS, EBSCO, ProQuest, CEEOL, Ulrich, ERIH, Copernicus Index, CSA, GESIS, IBSS, SAGE, OVID, ECOLIT, Psychlit, PubMed, Elsevier, Springerlink, Persee, DOAJ, Jstor, SSRN, REPEC, Informa, Project MUSE and HEIN Online.

## ANNEX 26

### **COMMISSION ON MILITARY SCIENCES, INTELLIGENCE AND PUBLIC ORDER**

## **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication of at least four articles as first author/corresponding author/co-author, of which:
  - a) at least two articles together with the doctoral supervisor;
  - b) at least three specialized articles in journals (with peer review system), indexed in at least two international databases;
  - c) at least one article in the volumes of national and international conferences in the field, proven by the conference program.

ANNEX 27

## **COMMISSION ON ECONOMICS AND BUSINESS ADMINISTRATION**

### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication of at least three articles in scientific journals indexed in at least three international databases or listed Web of Science, of which, for one article, the doctoral student has the quality of sole author, first author or corresponding author;
2. Presentation of at least three scientific papers at international conferences in the field, proven by the conference program.

ANNEX 28

## **COMMISSION FOR PSYCHOLOGY, EDUCATIONAL SCIENCES, PHYSICAL EDUCATION AND SPORT**

### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. Psychology field – publication of at least two articles in conference proceedings publications or at least two book chapters in a recognized volume of category B of Annex no. 28 to the Order of the Minister of National Education and Scientific Research no. 6.129/2016 regarding the approval of the minimum necessary and mandatory standards for the conferral of teaching titles in higher education, professional research and development degrees, the quality of doctoral supervisor and the habilitation certificate;

2. Educational Sciences field:
- a) publication of at least one article in a journal indexed in at least one recognized BDI database; or
  - b) publication of at least two articles in conference proceedings from the volumes of national or international peer-reviewed conferences, proven by the conference program; or
  - c) publication of at least one book chapter in a recognized volume of category B of Annex no. 28 to the Order of the Minister of National Education and Scientific Research no. 6.129/2016 regarding the approval of the minimum necessary and mandatory standards for the conferral of teaching titles in higher education, professional research and development degrees, the quality of doctoral supervisor and the habilitation certificate;

3. Sports Science and Physical Education/Human Motor Sciences:

- a) at least one article is published in a journal indexed in at least three recognized BDI databases; or
  - b) at least two articles to be published in the volumes of peer-reviewed conferences, proven by the conference program; or
  - c) at least one article published in a journal indexed in at least one BDI database and at least one article to be published in the volume of a (non-indexed) conference organized in Romania with peer review, proven by the conference program;
4. within the Web of Science, the journals included in the SCIE (Science Citation Index Expanded) or SSCI (Social Sciences Citation Index) collections are recognized;
5. the recognized international databases (BDI), as well as those other than those mentioned in the Web of Science are those in Annex no. 28 of the Order of the Minister of National Education and Scientific Research no. 6.129/2016 regarding the approval of the minimum necessary and mandatory standards for the conferral of teaching titles in higher education, professional research and development degrees, the quality of doctoral supervisor and the habilitation certificate.

## ANNEX 29

### **PHILOLOGY COMMISSION**

#### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. The doctoral student must have participated with a communication at least two national or international scientific congresses/conferences/colloquia, in the country or abroad, proven by the program of organization of the activity;
2. The doctoral student must have published at least two scientific articles in specialized journals or in collective volumes;
3. Both the communications and the published scientific articles must represent parts of the thesis (indicated by footnotes in the content of the doctoral thesis) or include the results of the research carried out within the doctoral research.

## ANNEX 30

### **PHILOSOPHY COMMITTEE**

#### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. at least one scientific article on the subject of doctoral research to be published or accepted for publication (with the presentation of proof of acceptance) in specialized journals or in volumes of thematic conferences;
2. At least one paper presented at specialized conferences on the subject of doctoral research, proven by the conference program.

## ANNEX 31

### **HISTORY AND CULTURAL STUDIES COMMISSION**

#### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. publication of at least one scientific article, during the doctoral internship, in BDI indexed journals in Annex no. 31 of the Order of the Minister of National Education and Scientific Research no. 6.129/2016 regarding the approval of the minimum necessary and mandatory standards for the conferral of teaching titles in higher education, professional research and development degrees, the quality of doctoral supervisor and the habilitation certificate;
2. publication of at least one study in collective volumes at recognized publishing houses  
CNCS;
3. participation with scientific papers in at least two conferences national/international profile with a program committee, proven by the conference program;
4. The doctoral student must be the first author, and the published/communicated works must contain the results of the doctoral thesis.

## ANNEX 32

### **COMMISSION OF THEOLOGY**

#### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. The doctoral student has at least three scientific publications in journals indexed in the databases recognized in Annex no. 32 of the Order of the Minister of National Education and Scientific Research no. 6.129/2016 regarding the approval of the minimum necessary and mandatory standards for the conferral of teaching titles in higher education, professional research and development degrees, the quality of doctoral supervisor and the habilitation certificate;

2. in the case of journals with a long waiting list, studies that have been accepted for publication by the journal's editors (with proof of acceptance) may be considered, in which case an identifiable DOI code will be provided;
3. The author participated with at least two communications at scientific events/summer schools of doctoral students (as partial results of his own research), and these were published in the collective volumes of these events.

## ANNEX 33

### **ARCHITECTURE AND URBAN PLANNING COMMISSION**

#### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. the doctoral student must prove that the research topic and fragments of the text of the work have already been published in extenso, having been the first author, sole author or corresponding author, of at least three articles in nationally or internationally listed journals, relevant to the research topic;
2. participation in at least two sessions of national and international scientific communications (proven by the session program) and publication of the results of these presentations in national and international specialized journals listed in international BDI databases.

## ANNEX 34

### **VISUAL ARTS COMMISSION**

#### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. For the scientific doctorate:
  - a) publication of at least one article/study in reference publications of art history or visual research (specialized journals, collective volumes, catalogs, dictionaries, encyclopedias, lexicons); or

b) participation with at least two communications at symposiums, conferences, national or international workshops, proven by the action program; one of the participations can be equated with relevant curatorial activities at national or international level;

2. For the professional doctorate:

- a) participation in at least two exhibition events (personal exhibitions or participation in group exhibitions at national or international level); or
- b) carrying out similar activities specific to the sub-fields: design (graphic design design, industrial design, environmental design), fashion/fashion design, mural art, art in public space, conservation-restoration.

## ANNEX 35

### **PERFORMING ARTS COMMISSION**

#### **Minimum national standards for the award of the doctoral degree**

In order to be awarded the title of doctor, it is necessary to meet the following minimum standards:

1. For the professional doctorate there are the following cumulative conditionalities:

- a) at least two artistic creation products in the doctoral specialization, noticed in the professional environment, which will be presented on digital support;
- b) at least three scientific research reports;

2. For the scientific doctorate there are the following cumulative conditionalities:

- a) at least three scientific research reports, an article published or accepted for publication (with the presentation of proof of acceptance) in a CNCS-recognized journal, indexed in an international database or in the volumes of scientific events indexed in international databases;
- b) a scientific communication held at a conference/symposium/workshop with a selection committee or peer-review system, proven by the event's organizational program.

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