

SELF - ASSESSMENT REPORT  
of doctoral field  
**ENVIRONMENTAL ENGINEERING**  
in  
IOSUD – Politehnica University Timișoara

*November 2024*

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## Part I

### GENERAL INFORMATION

#### **1.1. General information regarding the doctoral school that manages the field of doctoral studies (establishment, structure, evolution, research mission, level of quality certification, a presentation of the specific quality management measures and the promotion of ethics and deontology implemented at the level of the doctoral school, a presentation of the human resource and the research infrastructure existing at the level of the doctoral school, a presentation of the elements of educational effectiveness at the level of the doctoral school, etc.);**

Within IOSUD-UPT, in accordance with the Institutional Regulation for the organization of doctoral university studies in IOSUD – UPT (RIOSUD-UPT) approved by HS 94 / 11.07.2024, developed pursuant to Law 199/2023 and the Framework Regulation on doctoral university studies approved by the Order of the Minister of Education (ME) no. 3020/08.01.2024, the doctoral university study activity is carried out within a single doctoral school, the Doctoral School of Engineering Studies, established with the approval of the first Institutional Regulation for the organization and conduct of doctoral university studies (RIOSUD-UPT) in the UPT Senate in 2011. The headquarters of the Doctoral School of Engineering Studies is in the building of the Rectorate of UPT, P-ța. Victoriei no. 2, Timișoara, 1st floor, room 103 A,B,C.

The IOSUD-UPT option of establishing and operationalizing a single doctoral school has proven to be very beneficial for the development of doctoral degree programs, being in line with the mission and specificity of the Polytechnic University of Timișoara. Thus, it was possible to have a unitary approach to the development of doctoral study programs, with a beneficial impact on the observance of quality standards for all doctoral fields accredited in IOSUD-UPT. For example, assuming in IOSUD-UPT a minimum performance criterion for the public defense of doctoral theses, publication (or proof of acceptance for publication) of at least 2 scientific papers indexed Web of Science (ISI circuit) for which the doctoral student has the quality of author with explicit affiliation to the Polytechnic University of Timișoara. This obligation of the doctoral student has also been included in the doctoral studies contract since 2011, and from 2024 it is completed as follows: *"The public defense of the doctoral thesis is conditioned by the fulfillment of the minimum national standards for awarding the doctoral degree, developed by CNATDCU, corresponding to the doctoral field in which the thesis falls, respectively by the minimum performance criterion of IOSUD UPT. The minimum performance criterion of IOSUD - UPT is the publication or acceptance for publication, under UPT affiliation of the student-doctoral author, of 2 papers indexed Web of Science (in specialized journals or volumes of scientific events abroad). If the minimum national standards developed by CNATDCU for awarding the doctoral degree exceed those of UPT, the CNATDCU criteria prevail."*

The publication of the results of the doctoral research project before the public defense of the doctoral thesis confers not only international visibility (through Web of Science indexing) but

also an external, independent validation of their originality and scientific quality. As a result of this option assumed by IOSUD-UPT, all doctoral theses elaborated in IOSUD-UPT were validated by the CNATDCU specialized commissions, with the confirmation of the doctoral title.

In IOSUD-UPT, CSUD was led, between 2011 and 2016, by a director, appointed following the public competition organized by UPT, in accordance with the Institutional Regulation for the organization and conduct of elections for the organizational structures and management positions of doctoral studies at the level of the institution organizing doctoral studies "Politehnica" University of Timișoara, No. 6937 of 22.05.2012, approved by the UPT Senate Decision no. 13 of 10.05.2012. According to Decision no. 914/112/C of 30.08.2012 of the Rector of UPT, the Director of CSUD was appointed Prof.dr.ing Romeo SUSAN-RESIGA, starting with 03.09.2012, for a term of 4 years. Following the public competition for the position of CSUD Director organized by UPT in 2016, the mandate of Prof.dr.ing. Romeo SUSAN-RESIGA was renewed for another 4 years by the Decision of the Rector of UPT no. 1116/112/C of 16.09.2016.

Following the elections for the members of the CSUD, organized in June 2012 in accordance with the Institutional Regulation for the Organization and Conduct of Elections for the Organizational Structures and Management Positions of the Doctoral Studies at the IOSUD-UPT Level (approved by HS 13 / 10.05.2012), [http://www.upt.ro/Informatii\\_alegeri-consiliu-csud\\_299\\_ro.html](http://www.upt.ro/Informatii_alegeri-consiliu-csud_299_ro.html), the composition of the CSUD in the 2012-2016 mandate was as follows:

- Prof.univ.dr.ing. Liviu MARȘAVINA
- Prof.univ.dr.chim. Mircea ȘTEFĂNESCU
- Prof.univ.dr.ing. Ștefan-Gheorghe PREITL
- Prof.univ.dr.ing. Ion BOLDEA
- drd.ing. Attila SIMO

The director of the Doctoral School, Prof.dr.ing. Gheorghe-Daniel ANDREESCU was appointed by the Rector of UPT, at the proposal of the CSUD, by Decision no. 668/112/C of 10.07.2012, for a 5-year term, 2012-2017. The Interim Council of the Doctoral School (CSD) was formed, at the proposal of the CSUD, from

- Prof.dr.ing. Daniel Mihai GRECEA
- Prof.dr.ing. Nicolae FAUR
- Prof.dr. ing. Dorin LELEA (co-opted after obtaining the habilitation certificate)

The technical secretariat of the CSUD/CSD was provided in the period 2012-2016 by Mrs. dr.ing. Liliana MOȘTEORU, and the transmission of the doctoral files to the CNATDCU was coordinated by Mrs. Eng. Simona DAMIAN.

Considering GD no. 3/2021 regarding the extension of the state of alert on the territory of Romania starting with January 13, 2021, respectively, the Institutional Regulation for the organization and conduct of elections for the organizational structures and management positions of doctoral university studies at the level of the institution organizing doctoral studies Politehnica

University of Timișoara, the extension of the mandate of the members of the Council for Doctoral University Studies and of the members of the Doctoral School Council until 17.07.2021.

In January 2017, elections were organized for the members of the CSUD and for the members of the CȘD, in accordance with the Regulation on the organization of the processes of constitution of the management structures and of the election/designation/occupation by competition of the management positions at the level of the Politehnica University of Timișoara, for the 2016-2020 legislature (approved by HS 207 / 26.11.2015), with the following results for the composition of the CSUD and CȘD, [http://www.upt.ro/img/files/alegeri\\_2016/mcsud\\_mcsd/Raport\\_comisie\\_electorala\\_CSUD\\_CSD.pdf](http://www.upt.ro/img/files/alegeri_2016/mcsud_mcsd/Raport_comisie_electorala_CSUD_CSD.pdf) :

CSUD:

- Prof.dr.ing. Aldo DeSABATA
- Prof.dr.ing. Lăcrimioara STOICU TIVADAR
- Prof.dr.ing. Ion BOLDEA
- Prof.dr.ing. Francisc PETER
- Prof.dr.ing. Anca DRĂGHICI
- Prof.dr.ing. Marius MARCU
- Drd. Magdalena BANDA

CSD:

- Prof.dr.ing. Dorin LELEA
- Prof.dr.ing. Florea DINU
- Drd. Cezara-Liliana RAȚ

After the end of the 5-year mandate (2012-2017) of Director of the Doctoral School for Prof.dr.ing. Daniel ANDREESCU, at the proposal of the CSUD, the Rector of UPT by decision no. 1494/112/C of 19.10.2017, appointed prof.dr.ing. Dorin LELEA as Director of the Doctoral School for a 5-year term, 2017-2022.

In 2021, elections were held for the members of the CSUD and CȘD, based on the Regulation on the organization and conduct of the processes for the establishment of management structures and for the election/designation/occupation by competition of management positions at the level of the UPT for the 2020-2024 legislature approved by HS no. 226/31.10.2019.

Following the results of these elections held on 13.07.2021, validated by HS no. 148/22.07.2021, the composition of the two councils is as follows:

CSUD

- Prof.dr.ing. Ștefan-Gheorghe PREITL
- Prof.dr.ing. Anca DRĂGHICI

- Prof.dr.ing. Ion-Gheorghe BOLDEA
- Prof.dr.ing. Aldo DE SABATA
- Prof.dr.ing. Francisc PETER
- CS I. dr. ing. Sebastian MUNTEAN
- Drd. ing. Ion PANFILII

CSD:

- Prof.dr.ing. Adina Georgeta NEGREA
- Prof.dr.ing. Florea DINU
- Drd. Dominiq Ludovic Alexander Jakab

Based on the Regulation on the organization and the conduction of the processes for the establishment of management structures and for the election/designation/occupation by competition of management positions at UPT level for the 2020-2024 legislature, approved by HS. 226 / 31.10.2019, in 2020 a contest was organized for the CSUD director. According to the decision no. 1840/112/C of 20.10.2020 of the Rector of UPT, the Director of CSUD was appointed Prof.dr.ing. Radu-Emil PRECUP for a 4-year term.

Based on the CSUD decision no. 8/06.10.2022, in accordance with RIODSUD-UPT, Art. 7 letter b), the Council for Doctoral Studies of the Organizing Institution of Doctoral University Studies Polytechnic University of Timișoara (IOSUD-UPT) nominated for the position of Director of the Doctoral School of Engineering Studies within IOSUD-UPT prof. dr.ing. Dorin LELEA. Following the decision of the Rector of UPT, no. 1981/112/C of 14.10.2022, prof.dr.ing. Dorin LELEA is appointed Director of the Doctoral School of Engineering Studies within IOSUD-UPT.

Based on the Regulation on the organization and the conduction of the processes for the establishment of management structures and for the election/designation of management positions at the level of the Polytechnic University of Timișoara, for the 2024-2029 legislature, approved by HS 161/16.11.2023, a competition for the director of the CSUD was organized in 2024. By HS no. 130/24.10.2024, the result of the competition for the position of Director of the Council for Doctoral University Studies (CSUD) at IOSUD - Polytechnic University of Timișoara was validated, for Prof. Dr. Eng. Radu – Emil PRECUP. According to the decision no. 1644/112/C of 25.10.2024 of the Rector of UPT, the mandate of the Director of CSUD was renewed, Prof. dr. ing. Radu-Emil PRECUP being appointed Director of CSUD.

At present, the technical secretariat of the Doctoral School of Engineering Studies consists of 3 people: Mrs. Eng. Monica JURJIU (admission, study contracts, current problems of doctoral students and doctoral supervisors, constitution of the doctoral student's file), Mrs. Eng. Steliana CUCU (defense of doctoral theses and transmission of doctoral files to CNATDCU in the RMU/REI system of the Ministry of Education, development of the advanced university training program) and Mrs. CS I dr. Nicoleta NEMEȘ (activities regarding the reporting of information to the MEC, INS ANS, accreditation).

**1.2. The field of doctoral studies managed by the Doctoral School of Engineering Studies within IOSUD-UPT (objectives, mission, curricula, number of doctoral supervisors, evolution of the number of doctoral students and the number of doctors in the last 5 years, research centers/laboratories, main scientific achievements, etc.);**

The main objective of the Doctoral School of Engineering Studies of IOSUD-UPT and of the doctoral fields coordinated by it is the preparation of the human resource, within the third cycle of university studies, for the qualification of independent scientific researcher certified by granting the title of doctor to the doctoral student, after defending the doctoral thesis and following the completion of the doctoral program composed of (a) the training program based on advanced university studies (with duration of 1 year) respectively (b) individual doctoral scientific research program (with a minimum duration of 3 years).

The mission of the Doctoral School of Engineering Studies of IOSUD-UPT is to coordinate, in a unitary manner (with unitary academic performance criteria and standards) all the doctoral fields accredited for operation in IOSUD-UPT. The Doctoral School provides the optimal organizational framework for the development of training programs based on advanced university studies, respectively individual doctoral scientific research programs, and for the completion and public defense of doctoral theses. Also, the Doctoral School provides the organizational framework for the public defense of the habilitation and sustainable development theses of the body of doctoral supervisors affiliated to IOSUD-UPT. The Doctoral School provides, for all doctoral students of IOSUD-UPT, transversal courses within the training program based on advanced university studies, which provide doctoral students with the necessary knowledge and cultivate the appropriate skills and attitudes for scientific research in compliance with the academic standards of performance, originality, compliance with the norms of ethics and deontology of research.

The Doctoral School of Engineering Studies of IOSUD-UPT manages 14 fields of doctoral studies, according to GD 778/2015, GD 376/2016, GD 140/2017 and GD 158/2018, GD 326/2019, GD. 299/2020, GD 403/2021, GD 433/2022, GD 367/2023, GD 412/2024.

By OME 5981 of 21.12.2021, the maintenance of the accreditation of the fields of doctoral studies organized in the Doctoral School of Engineering Studies of IOSUD-UPT was approved. Also, by OME no. 5.231 of 01.08.2023, the field of Architecture was accredited, and by OME 5824 of 29.08.2023, the field of Geodetic Engineering was accredited. These doctoral fields are presented in the table below, together with the specialized CNATDCU commissions to which they are assigned.

<b>D#</b>	<b>Field of doctoral studies in IOSUD-UPT</b>	<b>CNATDCU Specialty Commission</b>
D01	Chemistry*	4. Chemistry
D02	Civil Engineering & Installations	6. Civil Engineering and Management
D03	Materials Engineering	7. Materials Engineering

D04	Chemical Engineering	8. Chemical Engineering, Medical Engineering, Materials Science and Nanomaterials
D05	Electrical Engineering	9. Electrical Engineering
D06	Energy Engineering	10. Energy Engineering
D07	Electronic Engineering, Telecommunications and Information Technology	11. Electronics, telecommunications and nanotechnology
D08	Computers and information technology	15. Computers, Information Technology and Systems Engineering
D09	Systems Engineering	
D10	Industrial Engineering	
D11	Engineering and Management	16. Industrial Engineering and Management
D12	Mechanical Engineering	17. Mechanical, Mechatronic and Robotics Engineering and Genistic and Armaments Engineering
D13	Architecture	33. Architecture and Urbanism
D14	Geodetic Engineering	12. Geological Engineering, Geodetic Engineering, Mining, Oil and Gas

\*in liquidation

The Doctoral School of Engineering Studies has a body of doctoral supervisors consisting of

- 160 total doctoral supervisors affiliated to IOSUD-UPT at the date of this self-assessment report, of which
  - 78 tenured doctoral supervisors (professors with an employment contract for an indefinite period in IOSUD-UPT), 33 associate doctoral supervisors (with a fixed-term employment contract for the guidance of doctoral students in internship). 49 of the affiliated doctoral supervisors do not have a contract with IOSUD-UPT at the date of this report because they do not currently supervise doctoral students in internships, but are professionally active.
  - 75 tenured doctoral supervisors who have obtained the habilitation certificate.

The table below shows the distribution of doctoral supervisors, affiliated to IOSUD-UPT at the date of this self-assessment report, for the field of doctoral studies **Environmental Engineering**. We specify that they will be affiliated to the Doctoral School of Engineering Studies within IOSUD-UPT, after the accreditation of the Environmental Engineering field.

D#	Field of doctoral studies in IOSUD-UPT	PhD supervisors who will join the Doctoral School of Engineering Studies of IOSUD-UPT					
		Total	Of which women	Holders in UPT	Of which women	Habilitation certificate	Of which women



D15	Environmental Engineering	3	2	3	2	3	2
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Within the field of **Environmental Engineering**, there are 3 doctoral supervisors who are to be affiliated to IOSUD UPT. All of them are tenured professors at the Polytechnic University of Timișoara ([Anexa A.3.1.2.](#)).

Crt. No.	Enable	PhD supervisor	Ministerial Order conferring on them the quality of doctoral supervisor	STATUS
1.	Ability	DUMITREL Gabriela-Alina	5787/29.09.2022	CDT
2.	Ability	MANEA Florica	3216/18.02.2015	CDT
3.	Ability	VANCEA Cosmin	6394/27.09.2023	CDT

CDT - full doctoral supervisor

The evolution of the number of doctoral students and the number of doctors in the last 5 years cannot be presented because the doctoral field Environmental Engineering is a field that is intended to be established in UPT and no doctoral students in Environmental Engineering have been enrolled.

#### EVOLUTION OF THE NUMBER OF DOCTORAL STUDENTS ADMITTED IN THE LAST 5 YEARS

Doctoral field	PhD students									
	2020/2021	of which women	2021/2022	of which women	2022/2023	of which women	2023/2024	of which women	2024/2025	of which women
Environmental Engineering	0	0	0	0	0	0	0	0	0	0

#### EVOLUTION OF THE NUMBER OF DOCTORS IN THE LAST 5 YEARS

Doctoral field	Theses defended									
	2020	of which women	2021	of which women	2022	of which women	2023	of which women	2024	of which women
Environmental Engineering	0	0	0	0	0	0	0	0	0	0

## Research infrastructure

The research infrastructure of UPT is made available to doctoral students, according to the institutional obligation assumed by the doctoral study contract (Art 6B). The IOSUD-UPT policy is to immerse doctoral students in research groups and collectives, of which the doctoral supervisor is a member and/or in which the members of the supervisory committee work, in order to ensure a high rate of assimilation of knowledge, experimental techniques and methods, numerical simulation techniques, and rapid familiarization with the research infrastructure to be used in the doctoral research program.

The following research centers and institutes are established and internally accredited in the Polytechnic University of Timișoara, [http://www.upt.ro/Upt-Timisoara\\_centre-si-institute-de-cercetare-153\\_ro.html](http://www.upt.ro/Upt-Timisoara_centre-si-institute-de-cercetare-153_ro.html):

- Research Institute for Renewable Energies
- Research Center for Complex Fluid Systems Engineering
- Research Center for Mechanics of Materials and Construction Safety
- Research Center in Automatic Systems Engineering
- Research Center for Intelligent Control of Energy Conversion and Storage
- Research Center for Inorganic Materials and Alternative Energies
- Research Center for Chemistry and Engineering of Macromolecular and Natural Organic Compounds
- Research Center for Analysis and Optimization of Electrical Power Systems Regimes
- Center for Research in Computers and Information Technology
- Research Center for Advanced Materials Processing and Characterization
- Research Center for Advanced Materials and Technologies
- Mechatronics and Robotics Research Center
- Research Center for Thermal Machinery and Equipment, Transport and Pollution
- Research Center for Construction Installations
- Center for Research in Medical Engineering
- Center for Research in Advanced Methods for the Study of Physical Phenomena
- Multimedia Research Center
- Research Center for Urban Planning
- Research Center for Construction Rehabilitation
- Research Center for Intelligent Electronic Systems
- Research Center for Intelligent Signal Processing
- Engineering and Management Research Center
- Research Center for Environmental Science and Engineering
- Center for Research in Hydrotechnics and Environmental Protection
- Integrated Engineering Research Center
- Infrastructure Research Center for Construction and Transport

The research infrastructure of IOSUD-UPT is presented (research equipment and services offered) in the IT platform "Engage in the Romanian Research Infrastructures - ERRIS", at the

link <https://erris.gov.ro/UNIVERSITATEA-POLITEHNICA-TI>. For each research center in the list above, the major research equipment and research services available are presented.

The development of UPT's research infrastructure is carried out through the research and development contracts carried out in the university, obtained through national and international competitions, but also through UPT's internal research grants, organized since 2017, and which are also ongoing at the time of submission of this file of creditors, financed from UPT's own income and intended for young researchers.

The main achievements in the scientific research and technological development activity of UPT are summarized annually in the "Research Annual Report – Politehnica University of Timișoara", publicly available reports since 2012. For the period 2012-2022, the research reports can be found at the link <http://www.research.upt.ro/page19.html#header01-8jk>

The research report for 2023 can be found at the link:

<http://www.research.upt.ro/assets/files/Anuar-2023.pdf>

### **Presentation of the research infrastructure – Environmental Engineering**

Within the field of **Environmental Engineering**, the research infrastructure can be consulted at:

<https://eertis.eu/errf-2300-000z-1377>

In detail, the research infrastructure can be found in [Anexa A.2.1.1](#), from the self-assessment sheet of the doctoral field.

### **1.3. Functioning of the internal quality assurance system at the level of the field of doctoral studies**

- **The objectives, overall structure and coherence of the internal quality assurance system;**

At the level of **the field of doctoral studies**, the main objective of the quality system for doctoral study programs is to carry out doctoral studies in such a way as to register a success rate as high as possible in obtaining the doctoral degree, the doctoral degree attesting to the training of scientific researchers capable of independently starting research activities.

The structure of the quality management system is presented on the UPT website ([http://www.upt.ro/Informatii\\_asigurarea-calitatii-in-upt\\_12\\_ro.html](http://www.upt.ro/Informatii_asigurarea-calitatii-in-upt_12_ro.html)) and is described in the Quality Manual ([http://www.upt.ro/img/files/2017-2018/calitate/180730\\_apt\\_Manualul\\_Calitatii.pdf](http://www.upt.ro/img/files/2017-2018/calitate/180730_apt_Manualul_Calitatii.pdf)), quality assurance, as part of the quality management system, being carried out as a coherent whole.

- **Quality assurance policies and definition of procedures, beneficiaries and their responsibilities;**

Doctoral studies are an essential component of the educational process at UPT. In this context, the regulation of the activities associated with doctoral studies is carried out by: "The Institutional Regulation for the Organization of Doctoral Studies in IOSUD - UPT ([http://www.upt.ro/img/files/2024-2025/doctorat/Regulament\\_doctorat\\_UPT\\_HS-nr.94-din-11.07.2024.pdf](http://www.upt.ro/img/files/2024-2025/doctorat/Regulament_doctorat_UPT_HS-nr.94-din-11.07.2024.pdf)), general quality system documents (Strategic Plans, Quality Manual) and quality assurance specific documents (procedures and work instructions). All the specific stages of the doctoral course are carefully documented so that they can be monitored and, if necessary, corrected in time. UPT website on doctoral studies ([http://www.upt.ro/Informatii\\_studii-universitare-de-doctorat\\_266\\_ro.html](http://www.upt.ro/Informatii_studii-universitare-de-doctorat_266_ro.html)) contains clear and useful information for the doctoral student, intended to inform him correctly and to integrate him into the university community, including information on the documents that he must take into account ([http://www.upt.ro/Informatii\\_documentele-doctoranzilor-inmatriculati-incepand-cu-anul-201\\_286\\_ro.html](http://www.upt.ro/Informatii_documentele-doctoranzilor-inmatriculati-incepand-cu-anul-201_286_ro.html)).

Quality assurance policies are set out in the rector's statement ([http://www.upt.ro/img/files/2020-2021/calitate/Declaratie\\_Rector\\_calitate\\_2021.pdf](http://www.upt.ro/img/files/2020-2021/calitate/Declaratie_Rector_calitate_2021.pdf)) and accompanying documents ([http://www.upt.ro/Informatii\\_asigurarea-calitatii-in-upt\\_12\\_ro.html](http://www.upt.ro/Informatii_asigurarea-calitatii-in-upt_12_ro.html)). They are detailed in the UPT strategic plan ([http://www.upt.ro/Informatii\\_planuri-strategice\\_59\\_ro.html](http://www.upt.ro/Informatii_planuri-strategice_59_ro.html)) and separate chapter (4.1.3. Doctoral studies) in operational plans ([http://www.upt.ro/img/files/2022-2023/PO-UPT\\_2022.pdf](http://www.upt.ro/img/files/2022-2023/PO-UPT_2022.pdf)).

In the efforts to fulfill the mission and define the UPT strategy, the UPT Board of Directors is advised by a UPT Steering Committee made up of 20 people<sup>1</sup>, an autonomous, independent consultative body of UPT.

- **Participation of staff, doctoral students and external stakeholders in the quality assurance process;**

UPT regulations and procedures, e.g. the work instruction on the defence of the doctoral thesis ([http://www.upt.ro/Informatii\\_studii-universitare-de-doctorat\\_266\\_ro.html](http://www.upt.ro/Informatii_studii-universitare-de-doctorat_266_ro.html)) and [http://www.upt.ro/img/files/2021-2022/doctorat/proced\\_sust\\_publica/HCA\\_87\\_2022\\_Instructiune\\_de\\_lucru\\_sustinere\\_publica\\_tez\\_a\\_doctorat.pdf](http://www.upt.ro/img/files/2021-2022/doctorat/proced_sust_publica/HCA_87_2022_Instructiune_de_lucru_sustinere_publica_tez_a_doctorat.pdf)) and the documentation of participation in external scientific events (see sections [http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale\\_Programul-de-finantare-ISI\\_27\\_ro.html](http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Programul-de-finantare-ISI_27_ro.html)) and, in general, the sections in the "Forms and Regulations" section of the page of the Department of International Relations of UPT ([http://www.upt.ro/international/Departamentul\\_Mobilitati\\_Si\\_Cooperari\\_Internationale\\_ro.html](http://www.upt.ro/international/Departamentul_Mobilitati_Si_Cooperari_Internationale_ro.html)) contain clear provisions that certify that the activity of the staff interacting with the UPT Doctoral School is part of a quality assurance system. Doctoral students have a representative in the Ethics Commission of UPT. The steering committee, which represents the employers' interest in the

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<sup>1</sup> [http://www.upt.ro/Informatii\\_comitet-director\\_254\\_ro.html](http://www.upt.ro/Informatii_comitet-director_254_ro.html)

training of highly qualified human resources, including through doctoral studies, contributes to the identification of research topics to be engaged through doctoral research in their proper conduct.

In UPT, the training of human resources for research through doctoral studies has been constantly seen in correlation with the research requirements of various companies and institutions, solving their requests implying a safe path of doctoral research, implicitly a quality assurance system. In this regard, the Doctoral School has taken measures to include in IOSUD-UPT the companies, Continental S.A., RAAL-Bistrita and ICEMENERG.

- **The interaction between the quality assurance system and university management;**

The quality assurance system in UPT is coordinated by the rector of UPT through the Commission for Evaluation and Quality Assurance (CEAC – UPT<sup>2</sup>) and the Department of Quality Assurance (DAC).<sup>3</sup> The interaction between the Board of Directors of UPT and DAC, the department with an executive role in ensuring the functioning of the quality management system in UPT, is permanent and aims to involve the quality system in all basic and support processes in UPT. In this context, DAC cooperates directly with all university entities and the directorates and compartments of the UPT Rectorate, including the UPT Doctoral School. The Board of Directors uses the monitoring reports of the CEAC and the DAC, initiates together with the DAC new procedures and work instructions, operates on the basis of the analysis reports submitted by the DAC of the self-evaluation reports of the programs and fields of study.

- **Transparency and access to information specific to the internal quality assurance system for internal and external beneficiaries;**

A separate section on quality assurance is provided on the UPT website.[http://www.upt.ro/Informatii\\_asigurarea-calitatii-in-upt\\_12\\_ro.html](http://www.upt.ro/Informatii_asigurarea-calitatii-in-upt_12_ro.html)). It contains information on the documents of the quality system, its organization, references to national and international references in the field of quality assurance in university education. DAC is responsible for verifying and posting on the UPT website the information from most of the sections appearing on the UPT page.<http://www.upt.ro/>). Among the sections of interest for internal and external beneficiaries are those relating to the organisation of the teaching process (see the page 'study programmes') and the educational and research offer of UPT (HOME <http://www.research.upt.ro/>).

- **The efficiency of internal quality assurance procedures and structures and their impact on activities within doctoral studies;**

Within the UPT, the various activities are mainly regulated by regulations. They cover the main processes in the university. Operational procedures and work instructions regulate essential or critical aspects of the processes. DAC and the Doctoral School collaborate in the

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<sup>2</sup> [http://upt.ro/img/files/calitate/Regulament\\_functionare\\_Ceac\\_HS\\_nr.163-din\\_2023.PDF](http://upt.ro/img/files/calitate/Regulament_functionare_Ceac_HS_nr.163-din_2023.PDF)

<sup>3</sup> [http://www.upt.ro/Informatii\\_documente-legate-de-structura-organizatorica\\_17\\_ro.html](http://www.upt.ro/Informatii_documente-legate-de-structura-organizatorica_17_ro.html)

development of procedures directly related to the basic activities of doctoral students and provide support for documenting support processes that also support the activity of doctoral students (information through the UPT website, administrative activities and activities related to the services offered to students within the university). The efficiency of the quality system's documents is revealed by the results obtained by UPT, in particular by the Doctoral School of UPT.

- **Using the information produced by the internal quality assurance system as a tool for quality management and improving education and other activities;**

Annually, CEAC has organized audits on topics related to the conditions that UPT makes available to students ([http://www.upt.ro/Informatii\\_asigurarea-calitatii-in-upt\\_12\\_ro.html](http://www.upt.ro/Informatii_asigurarea-calitatii-in-upt_12_ro.html)). The results of the audits are sent, together with proposals for corrective measures, to the rector of UPT. Starting with 2018, the evaluation of teachers by the student is done online. Procedures for internal self-evaluation have been developed for external evaluation by ARACIS.

- **Monitoring, evaluation and continuous development of the internal quality assurance system;**

The quality assurance system is coordinated by the rector of UPT who, on the one hand, interacts with CEAC-UPT, and on the other hand, follows the activity of the DAC by subordinating the DAC to a vice-rector. The monitoring of the quality assurance system is carried out by following the way in which the procedures and work instructions are applied and followed. Annually, CEAC-UPT presents a report on quality assurance. The report is debated by the Senate-UPT as part of the annual report of the UPT rector on the state of the university and becomes public ([http://upt.ro/Informatii\\_rapoarte\\_335\\_ro.html](http://upt.ro/Informatii_rapoarte_335_ro.html)). The DAC currently approves procedures and work instructions, depending on new activities that have arisen or need to be consolidated.

**Part II – Fulfillment of specific standards, indicators and criteria according to OM 3651/2021**

<b>A. INSTITUTIONAL CAPACITY</b>			
<b>A.1. Institutional, administrative, managerial structures and financial resources</b>			
<b>Standards</b>	<b>Performance indicators</b>	<b>Documenting the achievement of the performance indicators</b> <i>met/partially met/not met</i>	<b>Self-assessment of the degree of fulfilment of the requirement</b>
<p><b>A.1.1.</b> The institution organizing doctoral studies (IOSUD) has implemented the efficient functioning mechanisms provided for in the specific legislation on the organization of doctoral studies.</p>	<p><b>A.1.1.1.</b> The existence of specific regulations and their application at the level of the doctoral school to which the field of doctoral studies belongs:</p>	<p><b>A.1.1.1.</b> Within IOSUD-UPT the following regulations specific to doctoral studies exist and are applied:</p>	
	<p><b>(a)</b> Regulations of the Doctoral School</p>	<p><b>(a)</b> Institutional Regulation for the Organization of Doctoral Studies at the Polytechnic University of Timișoara, approved by HS 94/09.07.2024: <u><a href="#">Anexa A.1.1.1.a.</a></u></p> <p style="text-align: center;"><i>is publicly available at:</i></p> <p style="text-align: center;"><u><a href="http://www.upt.ro/img/files/hs/2024/HS%20nr.%2094_11.07.2024_p rivind%20aprobarea%20Regulamentului%20org.%20studii%20doct orat IOSUD-UPT.pdf">http://www.upt.ro/img/files/hs/2024/HS%20nr.%2094_11.07.2024_p rivind%20aprobarea%20Regulamentului%20org.%20studii%20doct orat IOSUD-UPT.pdf</a></u></p> <p>Considering that there is only one doctoral school in IOSUD-UPT, <b>the Doctoral School of Engineering Studies</b>, which unitarily manages all doctoral fields, a single document was chosen to include the regulations for the organization and conduct of doctoral studies.</p>	<i>Fulfilled</i>
	<p><b>(b)</b> The methodology for conducting the elections for the position of</p>	<p><b>(b)</b> The methodology for conducting elections at the level of the CSD is provided in:</p>	<i>Fulfilled</i>

	<p>director of the Doctoral School Council (CSD), as well as the election by the students of the representative in the CSD and evidence of their conduct;</p>	<p><b>1.</b> Institutional Regulation for the Organization and Conduct of Elections for the Organizational Structures and Management Positions of Doctoral Studies at the IOSUD-UPT Level, approved by HS 13/10.05.2012, for the <b>2012-2016 legislature</b>: <a href="#">Anexa A.1.1.1.b-1.</a></p> <p>is publicly available at:</p> <p><a href="http://www.upt.ro/administrare/dgac1/file/2011-2012/regulamente/IOSUD-UPT_CSUD2012.pdf">http://www.upt.ro/administrare/dgac1/file/2011-2012/regulamente/IOSUD-UPT_CSUD2012.pdf</a></p> <ul style="list-style-type: none"> <li>• The conduct of the elections at the level of the CSUD / CSD for the 2012-2016 legislature can be found in <a href="#">Anexa A.1.1.1.b-2.</a></li> </ul> <p>and is publicly available at:</p> <p><a href="http://www.upt.ro/Informatii_alegeri-consiliu-csud_299_ro.html">http://www.upt.ro/Informatii_alegeri-consiliu-csud_299_ro.html</a></p> <ul style="list-style-type: none"> <li>• The decision on the appointment of the members of the CSUD 2012-2016 can be found in <a href="#">Anexa A.1.1.1.b-3.</a></li> </ul> <p>and is publicly available at:</p> <p><a href="http://www.upt.ro/administrare/dgac1/file/2011-2012/doctorat/alegeri_csud/Numire_membri_CSUD_22_06_2012.pdf">http://www.upt.ro/administrare/dgac1/file/2011-2012/doctorat/alegeri_csud/Numire_membri_CSUD_22_06_2012.pdf</a></p> <ul style="list-style-type: none"> <li>• The conduct of the elections for the director of the CSUD for the 2012-2016 legislature can be found in <a href="#">Anexa A.1.1.1.b-4.</a></li> </ul> <p>and is publicly available at:</p>	
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		<p><a href="http://www.upt.ro/Informatii_concurs-public---director-al-csud_298_ro.html">http://www.upt.ro/Informatii_concurs-public---director-al-csud_298_ro.html</a></p> <ul style="list-style-type: none"> <li>• The decision to appoint the director of the CSUD 2012-2016 can be found in <a href="#">Anexa A.1.1.1.b-5.</a></li> <li>• The decision to appoint the director of the CSD 2012-2017 can be found in <a href="#">Anexa A.1.1.1.b-6.</a></li> </ul> <p>and is publicly available at:</p> <p><a href="http://www.upt.ro/img/files/2017-2018/doctorat/Decizie_numire_DSD_Andreescu_Gh-Daniel.pdf">http://www.upt.ro/img/files/2017-2018/doctorat/Decizie_numire_DSD_Andreescu_Gh-Daniel.pdf</a></p> <p>2. Regulation on the organization and conduct of the processes of constitution of management structures and of election / designation of occupation by competition of management positions at the level of the Polytechnic University of Timisoara, for the legislature <b>2016 - 2020</b> Attached in <a href="#">Anexa A.1.1.1.b-7.</a></p> <p>is publicly available at:</p> <p><a href="http://www.upt.ro/img/files/hs/HS_207_26.11.2015_Regulament_alegeri.pdf">http://www.upt.ro/img/files/hs/HS_207_26.11.2015_Regulament_alegeri.pdf</a></p> <ul style="list-style-type: none"> <li>• The conduct of the elections of the members of the CSUD / CSD for the 2016-2020 legislature can be found in <a href="#">Anexa A.1.1.1.b-8.</a></li> </ul> <p>and is publicly available at:</p> <p><a href="http://www.upt.ro/Informatii_alegereamembrilor-csud-si-csd-pentru-mandatul-2016-2020_840_ro.html">http://www.upt.ro/Informatii_alegereamembrilor-csud-si-csd-pentru-mandatul-2016-2020_840_ro.html</a></p> <ul style="list-style-type: none"> <li>• The report of the electoral commission on the appointment of CSUD members 2016-2020 can be found in <a href="#">Anexa A.1.1.1.b-9.</a></li> </ul>	
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		<p>and publicly available at:  <a href="http://www.upt.ro/img/files/alegeri_2016/mcsud_mcsd/Raport_comisie_electorala_CSUD_CSD.pdf">http://www.upt.ro/img/files/alegeri_2016/mcsud_mcsd/Raport_comisie_electorala_CSUD_CSD.pdf</a></p> <ul style="list-style-type: none"> <li>The decision to appoint the director of the CSUD 2016-2020 can be found in <a href="#">Anexa A.1.1.1.b-10.</a></li> </ul> <p>and is publicly available at:  <a href="http://www.upt.ro/img/files/alegeri_2016/csud/Decizie_numire_director_CSUD_2016.pdf">http://www.upt.ro/img/files/alegeri_2016/csud/Decizie_numire_director_CSUD_2016.pdf</a></p> <ul style="list-style-type: none"> <li>The decision to appoint the director of the CSD 2017-2022 can be found in <a href="#">Anexa A.1.1.1.b-11.</a></li> </ul> <p>and is publicly available at:  <a href="http://www.upt.ro/img/files/2017-2018/doctorat/Decizie_numire_DSD_Dorin_Lelea.pdf">http://www.upt.ro/img/files/2017-2018/doctorat/Decizie_numire_DSD_Dorin_Lelea.pdf</a></p> <ul style="list-style-type: none"> <li>Election of the student representative in the CSUD (<a href="#">Anexa A.1.1.1.b-12.</a>)</li> </ul> <p>is publicly available at:  <a href="http://www.upt.ro/img/files/alegeri_2016/mcsud_mcsd/PV_CSUD_drd.pdf">http://www.upt.ro/img/files/alegeri_2016/mcsud_mcsd/PV_CSUD_drd.pdf</a></p> <ul style="list-style-type: none"> <li>Election of the student representative in the CSD (<a href="#">Anexa A.1.1.1.b-13.</a>)</li> </ul> <p>is publicly available at:</p>	
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		<p><a href="http://www.upt.ro/img/files/alegeri_2016/mcsud_mcsd/PV_CSD_drd.pdf">http://www.upt.ro/img/files/alegeri_2016/mcsud_mcsd/PV_CSD_drd.pdf</a></p> <p>3. Regulation on the organization and conduct of the processes for the establishment of management structures and for the election / designation / occupation by competition of management positions at the level of the Polytechnic University of Timișoara, for the 2020-2024 legislature – attached in <a href="#">Anexa A.1.1.1.b-14.</a></p> <p>is publicly available at:</p> <p><a href="http://upt.ro/img/files/carta/anexe/Anexa23_CartaUPT_Regulament_alegeri-2020.pdf">http://upt.ro/img/files/carta/anexe/Anexa23_CartaUPT_Regulament_alegeri-2020.pdf</a></p> <ul style="list-style-type: none"> <li>• The proof of the contest for CSUD director – 2020-2024 legislature is presented in <a href="#">Anexa A.1.1.1.b-15.</a></li> </ul> <p>and is publicly available at:</p> <p><a href="http://www.upt.ro/Informatii_concurs-pentru-ocuparea-functiei-de-director-al-csud-pentru-1533_ro.html">http://www.upt.ro/Informatii_concurs-pentru-ocuparea-functiei-de-director-al-csud-pentru-1533_ro.html</a></p> <ul style="list-style-type: none"> <li>• Decision appointing CSUD director – 2020 (<a href="#">Anexa A.1.1.1.b-16.</a>).</li> </ul> <p>is publicly available at:</p> <p><a href="http://www.upt.ro/img/files/csud/Decizie_numire_director_CSUD_2020.pdf">http://www.upt.ro/img/files/csud/Decizie_numire_director_CSUD_2020.pdf</a></p> <ul style="list-style-type: none"> <li>• By HS no. 38 / 21.01.2021, the mandate of the CSUD/CȘD members was extended until 17.07.2021 (<a href="#">Anexa A.1.1.1.b-17.</a>)</li> </ul> <p>and is publicly available at:</p>	
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		<p><a href="http://www.upt.ro/img/files/2021-2022/doctorat/Decizie_director_CSD_1981_14-10-2022.pdf">http://www.upt.ro/img/files/2021-2022/doctorat/Decizie_director_CSD_1981_14-10-2022.pdf</a></p> <ul style="list-style-type: none"> <li>Decision on the appointment of CSUD director – 2024 (<u>Anexa A.1.1.1.b-23.</u>).</li> </ul> <p>is publicly available at:</p> <p><a href="http://www.upt.ro/img/files/alegeri-legislatura-2024-2029/director-CSUD/Decizie_director_CSUD_2024.pdf">http://www.upt.ro/img/files/alegeri-legislatura-2024-2029/director-CSUD/Decizie_director_CSUD_2024.pdf</a></p>	
	<p>(c) Methodologies for organizing and conducting doctoral studies (admission of doctoral students, completion of doctoral studies);</p>	<p>c) Within IOSUD-UPT, the following are used:</p> <ul style="list-style-type: none"> <li>Institutional procedure regarding the organization and conduct of admission to doctoral studies in UPT session 2024, approved by HS no. 29/21.03.2024 – presented in <u>Anexa A.1.1.1.c-1.</u></li> </ul> <p>is available at:</p> <p><a href="http://www.upt.ro/img/files/2023-2024/Admitere/doctorat/REGULAMENT%20ADMITERE%20DOC TORAT%202024.pdf">http://www.upt.ro/img/files/2023-2024/Admitere/doctorat/REGULAMENT%20ADMITERE%20DOC TORAT%202024.pdf</a></p> <ul style="list-style-type: none"> <li>Institutional procedure regarding the organization and conduct of admission to doctoral studies in UPT session 2023, approved by HBS no. 5/07.04.2023 – presented in <u>Anexa A.1.1.1.c-2.</u></li> </ul> <p>is available at:</p> <p><a href="http://www.upt.ro/img/files/2022-2023/Admitere/Doctorat/PROCEDURA%20ADMITERE%202023.pdf">http://www.upt.ro/img/files/2022-2023/Admitere/Doctorat/PROCEDURA%20ADMITERE%202023.pdf</a></p>	<p><i>Fulfilled</i></p>

		<ul style="list-style-type: none"> <li>• Institutional procedure regarding the organization and conduct of admission to doctoral studies in UPT session 2022, approved by HCA-UPT no. 114/24.05.2022 – presented in <a href="#">Anexa A.1.1.1.c-3</a>.</li> </ul> <p>is available at:</p> <p><a href="http://www.upt.ro/Informatii_admitere----doctorat_1714_ro.html">http://www.upt.ro/Informatii_admitere----doctorat_1714_ro.html</a></p> <ul style="list-style-type: none"> <li>• Institutional procedure regarding the organization and conduct of admission to doctoral studies in UPT session 2021, approved by HCA-UPT no. 67/25.05.2021 – presented in <a href="#">Anexa A.1.1.1.c-4</a>.</li> </ul> <p>is available at:</p> <p><a href="http://www.upt.ro/Informatii_admitere-2021---doctorat_1933_ro.html">http://www.upt.ro/Informatii_admitere-2021---doctorat_1933_ro.html</a></p> <ul style="list-style-type: none"> <li>• Institutional procedure regarding the organization and conduct of admission to doctoral studies in UPT session 2020, approved by HS-UPT no. 156/11.06.2020 – presented in <a href="#">Anexa A.1.1.1.c-5</a>.</li> </ul> <p>is available at:</p> <p><a href="https://www.upt.ro/img/files/2019-2020/admitere/doctorat/HS_156_11-06-2020-IOSUD-UPT-admitere-2020_PROCEDURA_anexe.pdf">https://www.upt.ro/img/files/2019-2020/admitere/doctorat/HS_156_11-06-2020-IOSUD-UPT-admitere-2020_PROCEDURA_anexe.pdf</a></p> <ul style="list-style-type: none"> <li>• Procedure for public defense of the doctoral thesis and constitution of the doctoral file in IOSUD-UPT, 2016 (<a href="#">Anexa A 1.1.1.c-6</a>),</li> </ul> <p>is publicly available at:</p>	
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	<p><b>(d)</b> The existence of mechanisms for the recognition of the quality of the doctoral supervisor and for the equivalence of the doctorate obtained in other states;</p>	<p><b>d)</b> IOSUD-UPT through the Doctoral School uses its own procedure for the recognition of the doctoral degree and the doctoral title obtained abroad (<a href="#">Anexa A.1.1.1.d-1.</a>).</p> <p><a href="#">Anexa A.1.1.1.d.</a> presents Certificates of recognition issued by IOSUD – UPT in the case of doctoral degrees recognized by IOSUD – UPT.</p> <p>Also, IOSUD-UPT is in permanent collaboration with C.N.R.E.D. in order to recognize diplomas and transmit to C.N.R.E.D. a centralized situation of applications’ recognition every six months.</p> <p>IOSUD-UPT, through the Doctoral School, uses its own procedure for the recognition of the quality of doctoral supervisor obtained in other states starting with 2019 (<a href="#">Anexa A.1.1.1.d-2.</a>) and the procedure updated in 2024 (<a href="#">Anexa A.1.1.1.d-3.</a>).</p>	<i>Fulfilled</i>
	<p><b>(d)</b> Functional management structures (Doctoral School Council), including proving the regularity of convening meetings;</p>	<p><b>(e)</b> Cf. art 10 of RIOSUD approved by HS 94/11.07.2024, IOSUD-UPT operates under the coordination of the Rector of UPT having all the structures provided by law. The structures are transparent: The UPT management structure is presented in <a href="#">Annex A 1.1.1.e-1.</a>, the structure of the CSUD/CSD is presented in the <a href="#">Anexa A.1.1.1.e-2.</a> and are publicly available at:</p> <p><a href="http://www.upt.ro/Informatii_conducerea-universitatii-politehnica-timisoara_311_ro.html">http://www.upt.ro/Informatii_conducerea-universitatii-politehnica-timisoara_311_ro.html</a></p>	<i>Fulfilled</i>



		<p><a href="http://www.upt.ro/Informatii_consiliul-pentru-studii-universitare-de-doctorat---scoala-do_310_ro.html">http://www.upt.ro/Informatii_consiliul-pentru-studii-universitare-de-doctorat---scoala-do_310_ro.html</a></p> <p>The register of minutes of CSUD / CSD meetings can be consulted at the headquarters of the Doctoral School of Engineering Studies. The meetings are convened every time the situation requires it (analysis and approval of CSUD / CSD decisions, updating methodologies and instructions for doctoral studies, etc.).</p>	
	(f) The Doctoral University Studies Contract.	<p>f) The relationship between IOSUD-UPT, the doctoral student and the scientific supervisor is formalized according to the law through the Doctoral University Studies Contract.</p> <p>In <a href="#">Anexa A.1.1.1.f-1.</a>, <a href="#">Anexa A.1.1.1.f-2.</a>, <a href="#">Anexa A.1.1.1.f-3.</a>, <a href="#">Anexa A.1.1.1.f-4.</a>, <a href="#">Anexa A.1.1.1.f-5.</a>, versions of the Contract used between 2020 and 2024 are presented.</p>	<i>Fulfilled</i>
	(g) internal procedures for the analysis and approval of proposals on the subject of the training program based on advanced university studies.	<p>(g) The Doctoral School aims to ensure the correlation of the themes of the training programs based on advanced university studies with the research topics proposed by the doctoral supervisors and assumed by IOSUD-UPT, the doctoral supervisors and the doctoral students through the doctoral study contracts.</p> <p>The training program based on advanced university studies is carried out on the basis of an <i>Individual Training Plan based on advanced university studies</i> (Annex 1 to the doctoral studies contract) developed exclusively and independently by the doctoral supervisor for each doctoral student, after admission to doctoral studies.</p> <p>Based on <i>IOSUD-UPT procedure for the analysis and approval of proposals on the subject of the training program based on advanced university studies</i> (<a href="#">Anexa A.1.1.1.g-1.</a>), The Doctoral School Council, through the Director of the Doctoral School, issues a decision approving the individual training plans based on advanced university studies for the current academic year (<a href="#">Anexa A.1.1.1.g-2.</a>).</p>	<i>Fulfilled</i>

	<p><b>A.1.1.2.</b> The regulations of the doctoral school include mandatory criteria, procedures and standards for the aspects specified in art. 17 para. (5) of the Code of Doctoral University Studies, approved by Government Decision no. 681/2011, with subsequent amendments and completions.</p>	<p><b>A.1.1.2</b> According to art.12 of the Regulation of the single doctoral school within IOSUD-UPT (<a href="#">Anexa A.1.1.1.a.</a>) establishes mandatory criteria, procedures and standards for the following aspects:</p> <ul style="list-style-type: none"> <li><b>a)</b> acceptance of new doctoral supervisor members (Art. 12 items 11, 12);</li> <li><b>b)</b> the mechanisms by which decisions are made regarding the opportunity, structure and content of the training program based on advanced university studies (Art. 18 items 1,2 Art. 19 points 1, 2, 3, 4, 5);</li> <li><b>c)</b> procedures for changing the doctoral supervisor of a certain doctoral student and conflict mediation procedures (Art. 14, items 8, 9, 10);</li> <li><b>d)</b> the conditions under which the doctoral program can be interrupted (Art. 18 items 4, 5);</li> <li><b>e)</b> the ways of preventing fraud in scientific research, including plagiarism (Art. 23 item 7, Art. 24 letter b, c, Art. 25.);</li> <li><b>f)</b> ensuring access to research resources; (Art. 9 para. 6, Art. 13 para. 6 lit.d, f).</li> </ul>	<p><i>Fulfilled</i></p>
<p><b>A.1.2.</b> IOSUD has the logistical resources necessary for the fulfillment of the mission of doctoral studies.</p>	<p><b>A.1.2.1.</b> The existence and effectiveness of an adequate information system for the record of doctoral students and their academic career.</p>	<p><b>A.1.2.1</b> The information system for the record of doctoral students and the academic path used within IOSUD-UPT mainly includes:</p> <ul style="list-style-type: none"> <li>• The ENROLL admission platform (intended for the management in IOSUD-UPT of information on the admission of students, in the process of being extended for doctoral studies to monitor the activity of doctoral students and the constitution of the doctoral file in electronic format).</li> <li>• Starting with the academic year 2017/2018 in IOSUD - UPT, the registration for the doctorate is done computerized, by accessing the ENROLL platform by the candidates, at the address: <a href="http://www.upt.ro/Informatii_admitere----doctorat_1714_ro.html">http://www.upt.ro/Informatii_admitere----doctorat_1714_ro.html</a></li> </ul>	<p><i>Fulfilled</i></p>

		<ul style="list-style-type: none"> <li>• Starting with the 2020/2021 academic year, IOSUD – UPT has created the possibility for students to have the entire admission file set up and submitted on the ENROLL platform.</li> <li>• The instructions for completing the admission file in the ENROLL PhD platform are presented in <a href="#">Anexa A.1.2.1-1</a>, which are publicly available at:  <a href="http://www.upt.ro/img/files/2019-2020/admitere/doctorat/Admitere_PHD_2020_Instructiuni_enroll_rev3.pdf">http://www.upt.ro/img/files/2019-2020/admitere/doctorat/Admitere_PHD_2020_Instructiuni_enroll_rev3.pdf</a></li> <li>• Each candidate creates a user account, and then, with the username and password received by e-mail, they log in to fill in the requested data. Subsequently, the registration form for doctoral studies is generated from the ENROLL platform.</li> <li>• The registration form for doctoral studies includes: <ul style="list-style-type: none"> <li><b>I.</b> Personal data <ul style="list-style-type: none"> <li>• Editing personal data</li> </ul> </li> <li><b>II.</b> Studies <ul style="list-style-type: none"> <li>• Data on high school graduation</li> <li>• Bachelor's studies</li> <li>• Data on master's studies / advanced studies</li> </ul> </li> <li><b>III.</b> Affidavit regarding doctoral studies financed from the state budget</li> </ul> </li> <li>• Choosing PhD Options <ul style="list-style-type: none"> <li>• Doctoral field</li> <li>• Financing options</li> <li>• PhD supervisor</li> </ul> </li> <li>• Uploading documents</li> <li>• Completing the registration.</li> </ul>	
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		<ul style="list-style-type: none"> <li>• The ENROLL platform is also used since 2017 for the generation of doctoral study contracts for doctoral students declared admitted, respectively for the generation of meta-data necessary for the inclusion of doctoral students in the Single Matriculation Register (RMU). In the future, ENROLL is to be extended to allow the generation of all documents that are included in the doctoral student's file.</li> <li>• The ACCES database "<i>Record of doctoral students enrolled in UPT</i>" is intended to keep the record of doctoral students enrolled in UPT and to highlight their academic career.</li> <li>• For the cohorts of enrolled doctoral students, selected on certain criteria (doctoral field, doctoral supervisor, year of enrollment, type of funding, etc.), various queries and data extractions can be made, which constitute the raw material for any type of statistics requested.</li> </ul> <p><i>Thus, the following can be highlighted:</i></p> <ul style="list-style-type: none"> <li>• General/personal data for each enrolled student</li> <li>• The situation of doctoral students enrolled in each field / faculties / with each supervisor in a field, over a certain period of time,</li> <li>• The situation of the expelled doctoral students in each field / faculties / in each supervisor in a field, over a certain period of time,</li> <li>• The situation of doctoral students who have developed and defended their doctoral theses within a certain period of time,</li> <li>• The situation of doctoral students who are on internship interruption,</li> <li>• Number of doctoral theses defended in a period of time,</li> <li>• The situation of doctoral students with scholarships,</li> <li>• The situation of doctoral students without a scholarship,</li> <li>• The situation of fee-paying doctoral students,</li> </ul>	
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		<ul style="list-style-type: none"> <li>• Observations regarding the doctoral internship: interruption / expulsion / extension.</li> </ul> <p><i>The academic path can be followed in the fields related to the doctoral program:</i></p> <ul style="list-style-type: none"> <li>• The subjects of the advanced university training program and the holders of these subjects,</li> <li>• Date of defense and the grade awarded for each of the subjects of the advanced university training program,</li> <li>• Title of the research project,</li> <li>• Research Reports 1 and 2, with their supporting data,</li> <li>• Composition of the Steering Committee,</li> <li>• Title of the doctoral thesis,</li> <li>• Composition of the doctoral committee,</li> <li>• Date of defense of the doctoral thesis and the grade awarded,</li> <li>• The number of the ministerial order conferring the doctoral degree and its date,</li> <li>• The number of the doctoral degree and the date of its issue.</li> </ul> <p><u>Anexa A.1.2.1-2.</u> includes examples of how to use the ACCESS database.</p>	
	<p><b>A.1.2.2.</b> The existence and use of an appropriate software and evidence of its use for checking the percentage of similarity in all doctoral theses.</p>	<p><b>A.1.2.2.</b> IOSUD-UPT has carried out the verification of the percentage of similarity in the doctoral theses elaborated since 2017, using the following computer programs, approved by MENCS according to OM 3485/2016.</p> <ul style="list-style-type: none"> <li>• Plagiat.pl, through the doct.edu.ro/doct IT platform of the Ministry of Education, between June 2016 and July 2017.</li> <li>• SemPlag, through the uefiscdi-direct.ro/semplag/index.php platform, between August 2017 and September 2017.</li> <li>• iThenticate (acquired by UPT) from October 2017 to date.</li> </ul>	<p><i>Fulfilled</i></p>

		<ul style="list-style-type: none"> <li>• Since in the field of Environmental Engineering there are no students who have defended the doctoral thesis and for whom similarity software has been used, for example, in <a href="#">Anexa A.1.2.2-1</a>, you can find the list of PhD students in the field of <b>Chemical Engineering</b> for whom the software for checking the percentage of similarity was used.</li> <li>• In <a href="#">Anexa A.1.2.2-2</a>, examples of using the similarity software for PhD students in the related field are presented, <b>Chemical Engineering</b>.</li> </ul>	
<p><b>A.1.3.</b> IOSUD ensures that financial resources are used optimally, and the income obtained from doctoral studies is supplemented by additional funding to that provided by the government.</p>	<p><b>A.1.3.1.</b> The existence of at least one research or institutional/human resources development grant in implementation at the time of submitting the internal evaluation file, for the field of doctoral studies analyzed, or the existence, at the level of the field, of at least 2 research or institutional/human resources development grants obtained by the doctoral supervisors in the evaluated field in the last 5 years. The grants address topics relevant to the respective field and, as a rule, are carried out with the involvement of doctoral students.</p>	<p><b>A.1.3.1.</b> List of grants for the field of <b>Environmental Engineering</b>:</p> <ul style="list-style-type: none"> <li>• Doctoral supervisors to be affiliated to the field of doctoral studies <b>Environmental Engineering</b> participated in the implementation and completion of the grants from <a href="#">Anexa A.1.3.1</a>, obtained by doctoral supervisors in the field. The involvement was both in <i>Grants research as much as in institutional grants</i>.</li> <li>• At the time of submitting the evaluation file, the situation of <i>research grants</i> is as follows: <ul style="list-style-type: none"> <li>- Research or institutional development/human resources grants in implementation: 1/1</li> <li>- Research or institutional development/human resources grants obtained by PhD supervisors in the last 5 years: 7/5</li> <li>- Total contracts in the field (2019-2024):15</li> </ul> </li> </ul> <p>The research grants address modern topics for the doctoral field proposed for establishment, the doctoral students will be involved in the research projects, according to the legislation in force.</p>	<i>Fulfilled</i>
	<p><b>*A.1.3.2.</b> The proportion of doctoral students existing at the time of the evaluation who benefit, for at least 6</p>	<p><b>*A.1.3.2.</b> In the context of the quality indicator, IOSUD-UPT has used and continues to use the following financial resources from its own</p>	<i>Fulfilled</i>

	<p>months, from sources of funding other than government funding, through scholarships granted by individuals or legal entities, or are financially supported by research or institutional development / human resources grants, is at least 20%.</p>	<p>revenues to support doctoral students in order to carry out doctoral study programs:</p> <ul style="list-style-type: none"> <li>• Doctoral scholarships from UPT's own income, awarded for 2024 based on HCA 199/24.09.2024, for 2023 based on HCA 134/26.09.2023, for 2022 based on HCA 160/20.09.2022, for 2021 based on HCA 99/13.07.2021, for 2020 based on HCA 132/29.09.2020, for 2019 based on HCA 73/24.09.2019, for 2018 based on HCA no. 44/11.09.2018 (<a href="#">Anexa A.1.3.2-1.</a>)</li> <li>• Doctoral grants from UPT's own revenues intended for the completion of doctoral university studies granted on the basis of the Decision of the UPT Senate or the UPT Board of Directors (<a href="#">Anexa A.1.3.2-2.</a>). In the case of scholarships for the extension of doctoral studies, starting with the academic year 2022/2023, they had a no-scholarship-tuition-free regime.</li> <li>• Starting with 2023, performance scholarships were also awarded in the UPT from their own income, based on a procedure issued by the CSUD, regarding their award. These performance scholarships were awarded in 2024 on the basis of HCA 200/24.09.2024, respectively in 2023 on the basis of HCA 145/03.10.2023 (<a href="#">Anexa A.1.3.2-3.</a>).</li> </ul>	
	<p><b>*A.1.3.3.</b> At least 10% of the total amounts related to doctoral grants obtained by the university through institutional contract and tuition fees collected from doctoral students, from the form of fee-based education, are used to finance the professional training expenses of doctoral students (participation in conferences,</p>	<p><b>*A.1.3.3.</b> For this indicator, as there are no registered doctoral students, there are no data.</p>	<p><i>Fulfilled</i></p>

	summer schools, courses, internships abroad, publication of specialized articles or other specific forms of dissemination, etc.).		
<b>A.2.Research infrastructure</b>			
<b>Standards</b>	<b>Performance indicators</b>	<b>Findings</b>	
<b>A.2.1.</b> IOSUD has a modern research infrastructure, which supports the development of activities specific to doctoral studies.	<b>A.2.1.1.</b> The spaces and material endowment of the doctoral school allow the realization of research activities, in the evaluated field, in accordance with the mission and objectives assumed (computers, specific software, equipment, laboratory equipment, library, access to international databases, etc.). The research infrastructure and the offer of research services are publicly presented through a profile platform. The research infrastructure described above, acquired and developed in the last 5 years, will be distinctly highlighted.	<b>A.2.1.1.</b> The spaces and material endowment of IOSUD / Doctoral School allow the realization of research activities in the evaluated field, in accordance with the mission and objectives assumed (computers, specific software, equipment, laboratory equipment, library, access to international databases, etc.). <ul style="list-style-type: none"> <li>• The Central Library of UPT offers access to information resources both on traditional and electronic support. The library has the following types of informational resources: monographs, serial publications, electronic resources with local access and remote access. They are 45% in free access to the shelf, and 55% in book and magazine warehouses.</li> <li>• The library has an area of 8400 m<sup>2</sup>, 6 levels, 750 reading places, 24H Access reading room with 100 seats, Group study rooms, Conference room, Multimedia rooms, IT spaces, Individual study rooms as well as relaxation spaces.</li> <li>• The information resources can be accessed by the library users by querying the Electronic Catalog or by directly accessing the shelf, the books in free access being arranged as follows: <ul style="list-style-type: none"> <li>○ In the alphabetical order of the domain/subdomain;</li> <li>○ Within the domains/subdomains in the alphabetical order of the quota (respecting the author star/title of the publication);</li> <li>○ Within the share belonging to an author/title star in alphabetical order of titles;</li> <li>○ Within the same title, in the order of editions/chronological;</li> <li>○ Within the edition of the same title, in ascending order of inventory number.</li> </ul> </li> </ul>	<i>Fulfilled</i>




- The library's collections in free access to the shelf are presented in the following table.

1. Art. Science. Technique	Art. Science. Technique	And. IIB – Free Access
	Book Deposit	Basement
2. Doctoral theses	Doctoral theses	Et. IIIA – Free Access
	Book Deposit	Basement
3. Language. Linguistics. Literature	Language. Literature	And. IIIB – Free access
	Book Deposit	Basement
4. Standards	Standards	Et. IIIA – Free Access
5. References	References	Et. IIA – Free Access
	Book Deposit	Basement
6. Magazines	Magazines	And. IIB – Free Access
	Magazine Repository	Ground floor
7. Bibliography	Bibliography	And. AI – Free Access
	Bibliographies Repository	Basement
8. Old Books	Old Books	Basement
9. Rare Books	Rare Books	Basement
10. UPT Teaching Staff Collection (1920-1955)	UPT Teaching Staff Collection (1920-1955)	Basement

- Access to information resources is made through the Web page, at the address: <https://library.upt.ro/>.
- The online catalog can be accessed in two ways:
  - from the WEB page

Caută în catalogul online al BUPT ...

- from the WEB page

 CATALOGUL ONLINE - PRIMO

- The databases held by the Library can be accessed at: <https://library.upt.ro/baze-de-date/>  
or

- Directly from the PRIMO search system module, by selecting Primo Central Index and Subscriber Databases



The databases subscribed to by the library are:

#### Baze de date



Platforma de cercetare ElsevierDirect oferă acces în text integral la reviste științifice de cercetare în format online, cărți academice, serii de cărți și enciclopedii online. Peste 20% din informația apărută la nivel global în domeniile științe exacte și științe umaniste, tehnologie și medicină este publicată pe platforma Elsevier Science Direct. Este înconstruită, cea mai importantă resursă informativă academică a zilelor noastre și cuprinde revistele științifice de grupul editorial Elsevier (grupează editurile: Elsevier, Churchill Livingstone, Saunders, Mosby, Ciel Press, Pergamon, Butterworth-Heinemann, Academic Press, The Lancet, JAI Press, North Holland, Elsevier).



Platforma SpringerLink oferă acces cu text integral la reviste științifice de cercetare în format online, fără alt suport magnetic sau pe hartă. Este una din cele mai utilizate resurse electronice de documentare științifică din lume și de la noi din țară. Înființată în anul 1996, platforma SpringerLink a continuat să evolueze în funcție de nevoile cercetătorilor și în prezent conține peste 2.000 de titluri de reviste (date de 1.601 în 2008), peste 100.000 de cărți online, peste 4.400 serii de cărți și 507 de lucrări de referință online, peste 34.000 de protocoale, șase zile șase continuu reviste de la cele mai mari edituri științifice din lume.



Web of Knowledge este una dintre cele mai importante surse de documentare științifică la nivel mondial. Scopul acestei baze de date este de a oferi informații despre recunoașterea științifică a cercetătorilor științifici și de identificare a noilor tendințe și tehnologii la nivel mondial. Web of Knowledge este autoritatea recunoscută pentru evaluarea IBI a jurnalelor științifice, creat în colaborare cu prestigiosul Institute for Scientific Information din Philadelphia, SUA.



IEEE/ET Electronic Library (IEL) oferă acces la mai mult de o treime din literatura din domeniul ingineriei și a științelor calculatorului din întreaga lume, punând la dispoziție materiale de foarte bună calitate de la Institute of Electrical and Electronics Engineers (IEEE) și Institution of Engineering and Technology (IET). Este o bază de date ideală pentru universități, corporații și agenții guvernamentale. Un abonament la IEEE/ET Electronic Library oferă acces la textul integral pentru toate revistele, cărțile, lucrările și rapoartele din științele computerice, editate de IEEE, reviste și lucrări de la diverse conferințe editate



Scopus este o bază de date bibliografică și bibliometrică în format online, cuprinzând reviste științifice, lucrări prin intermediul Internetului. Oferă acces la rezumatul articolelor științifice din peste 1500 de reviste științifice internaționale publicate la nivel mondial de edituri internaționale. Utilizarea ca instrument de evaluare includea Hirsch care permite evaluarea autorilor și instituțiilor academice în baza raportului dintre articolele publicate și numărul de citări primite.



Baza de date "Legis Plus" conține peste 35.000 de acte normative (legi, decizii, hotărâri, ordonanțe, ordine, cîrți, norme, practici, amec, acte republicate) din anul 1918 și până în prezent. (vee actualitatea dată cu apariția Monitorului Oficial).

- The informational resources on traditional support that are not found in the electronic catalog can be found in the traditional catalogs of the library.
- The accesses to the databases subscribed within the Anelis Consortium (later Anelis Plus) between May and October 2018 are:

1. IP: 48,321 hits;
2. Mobile access: 390,281 hits.

- Within the field of **Environmental Engineering**, the infrastructure can be found at:

<https://eertis.eu/errf-2300-000z-1377>

The research infrastructure is presented in detail in [Anexa A.2.1.1.](#)

A.3. Quality of human resources																																								
Standards	Performance indicators	Findings			Degree of fulfillment of the requirement <i>met/partially met/not met</i>																																			
A.3.1. At the level of each field there are qualified personnel, with the necessary experience to carry out the doctoral study program.	A.3.1.1. Within the doctoral field, there are at least 3 doctoral supervisors and at least 50% of them (but not less than three) meet the minimum standards of the National Council for the Attestation of University Titles, Diplomas and Certificates (CNATDCU) in force at the time of the evaluation, necessary and mandatory for obtaining the habilitation certificate.	<p><b>A.3.1.1.</b> Within IOSUD UPT, qualified in the field of <b>Environmental Engineering</b> there are <b>3</b> doctoral supervisors who are to be affiliated to IOSUD – UPT. All 3 fully meet the minimum CNATDCU criteria imposed by OMEN 6129/2016. The following table summarizes the nominal situation regarding the fulfillment of the minimum standards, and in <a href="#">Anexa A.3.1.1.</a> the centralizers with the minimum standards detailed by criteria, for each of the doctoral supervisors of the Environmental Engineering field, <b>are presented.</b></p> <table border="1"> <thead> <tr> <th>Criteria</th> <th>CNATDCU minimum conditions</th> <th>MANEA Florica</th> <th>DUMITREL Gabriela-Alina</th> <th>VANCEA Cosmin</th> </tr> </thead> <tbody> <tr> <td colspan="5" style="text-align: center;"><b>Score achieved for the entire activity</b></td> </tr> <tr> <td>NT</td> <td>≥ 25</td> <td>111</td> <td>61</td> <td>42</td> </tr> <tr> <td>NP</td> <td>≥ 10, with a minimum of six papers in journals with FI&gt;1</td> <td>70(42)</td> <td>27(14)</td> <td>28(15)</td> </tr> <tr> <td>FIC</td> <td>≥ 20</td> <td>212.107</td> <td>62.125</td> <td>68.620</td> </tr> <tr> <td>CN</td> <td>≥ 100</td> <td>1385</td> <td>422</td> <td>359</td> </tr> <tr> <td colspan="2"><b>Meets CNATDCU standards</b></td> <td><b>ALSO</b></td> <td><b>ALSO</b></td> <td><b>ALSO</b></td> </tr> </tbody> </table>			Criteria	CNATDCU minimum conditions	MANEA Florica	DUMITREL Gabriela-Alina	VANCEA Cosmin	<b>Score achieved for the entire activity</b>					NT	≥ 25	111	61	42	NP	≥ 10, with a minimum of six papers in journals with FI>1	70(42)	27(14)	28(15)	FIC	≥ 20	212.107	62.125	68.620	CN	≥ 100	1385	422	359	<b>Meets CNATDCU standards</b>		<b>ALSO</b>	<b>ALSO</b>	<b>ALSO</b>	<i>Fulfilled</i>
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<b>Meets CNATDCU standards</b>		<b>ALSO</b>	<b>ALSO</b>	<b>ALSO</b>																																				

		<p>NT = total number of articles in ISI journals          FIC = cumulative impact factor (the sum of the impact factors of the journals at the time of registration for the competition for a teaching position)          NP = number of articles in ISI journals for which the candidate is the main author (first author or corresponding author)          NC = the total number of citations from the SCOPUS or ISI Web of Science database, excluding self-citations</p>																					
	<p><b>*A.3.1.2.</b> At least 50% of the doctoral supervisors in the evaluated doctoral field are tenured within IOSUD, employed with the conclusion of an employment contract for an indefinite period.</p>	<p><b>*A.3.1.2.</b> Within IOSUD UPT, qualified in the field of <b>Environmental Engineering</b> Are <b>3</b> PhD supervisors to be affiliated IOSUD – UPT. All of them are tenured members of IOSUD UPT (<u>Anexa A.3.1.2.</u>).</p> <table border="1" data-bbox="990 683 1935 954"> <thead> <tr> <th>Crt. No.</th> <th>PhD supervisor</th> <th>Ministerial Order conferring the quality of doctoral supervisor</th> <th>Meets CNATDCU standards</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>MANEA Florica</td> <td>3216/18.02.2015</td> <td>YES</td> <td>CDT</td> </tr> <tr> <td>2</td> <td>DUMITREL Gabriela-Alina</td> <td>5787/29.09.2022</td> <td>YES</td> <td>CDT</td> </tr> <tr> <td>3</td> <td>VANCEA Cosmin</td> <td>6394/27.09.2023</td> <td>YES</td> <td>CDT</td> </tr> </tbody> </table> <p>CDT – full doctoral supervisor          3 PhD supervisors in total</p> <p style="text-align: center;"><math>3/3 \cdot 100 = 100\%</math> titles          CRITERIA MET <math>\geq 50\%</math></p>	Crt. No.	PhD supervisor	Ministerial Order conferring the quality of doctoral supervisor	Meets CNATDCU standards	Status	1	MANEA Florica	3216/18.02.2015	YES	CDT	2	DUMITREL Gabriela-Alina	5787/29.09.2022	YES	CDT	3	VANCEA Cosmin	6394/27.09.2023	YES	CDT	<i>Fulfilled</i>
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3	VANCEA Cosmin	6394/27.09.2023	YES	CDT																			
	<p><b>A.3.1.3.</b> The disciplines of the training program based on advanced university studies related to the field are defended by teachers or researchers who have the quality of</p>	<p><b>A.3.1.3.</b> The subjects in the training program based on advanced university studies related to the field are supported by teachers or researchers who have the quality of doctoral supervisor / habilitated,</p>	<i>Fulfilled</i>																				

	<p>doctoral supervisor / habilitated, professor / CS I or associate professor / CS II with proven expertise in the field of the taught disciplines or other specialists in the field who meet the standards established by the institution for the teaching and research functions mentioned above, under the law.</p>	<p>professor / CS I or associate professor / CS II with proven expertise in the field of the subjects taught.</p> <p>The training program based on advanced university studies includes the following <i>types of disciplines</i>:</p> <ul style="list-style-type: none"> <li>• <b>TRANSVERSAL discipline</b>: it is defended for all first-year doctoral students.</li> </ul> <p>Between <b>2008 and 2017</b>, the discipline was called: "Scientific research, communication and deontology". The course sheet is public and can be found at:</p> <p><a href="http://www.upt.ro/Informatii_cscs_419_ro.html">http://www.upt.ro/Informatii_cscs_419_ro.html</a>.</p> <p><b>Starting with 2018</b>, the transversal discipline is called "Ethics and academic integrity in scientific research and dissemination of results"</p> <p>The course sheet is public and can be accessed at:</p> <p><a href="http://www.upt.ro/Informatii_etica-si-integritate-academica-in-cercetarea-stiintifica-si-1409_ro.html">http://www.upt.ro/Informatii_etica-si-integritate-academica-in-cercetarea-stiintifica-si-1409_ro.html</a></p> <p>Within the discipline, the following are taught:</p> <ul style="list-style-type: none"> <li>• <b>7 course lessons</b> – discipline holder: <i>Prof.univ.dr.eng. Toma Leonida Dragomir</i>,</li> <li>• <b>7 conferences</b> – held by professors, all scientific personalities: <i>Prof.univ.dr. eng. Radu Vasiu, Prof.univ.dr. eng. Ștefan Preitl, Prof.univ.dr. eng. Radu Marinescu, Prof.univ.dr. eng. Ștefan Holban, Acad.prof.univ.dr. eng. Ion Boldea, Prof.univ.dr. eng. Romeo Susan Resiga, Acad.prof.univ.dr. eng. Dan Dubina</i></li> <li>• <b>7 seminars</b> – held by 6 professors, all scientific personalities: <i>Prof.univ.dr. eng. Daniel Andreescu, Prof.univ.dr. eng. Liviu Marșavina, Prof.univ.dr. eng. Nicolae Vaszilcsin, Prof.univ.dr. eng. Ștefan Preitl, Prof.univ.dr. eng. Dinu Florea, Prof.univ.dr. eng. Dorin Lelea.</i></li> </ul>	
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		<ul style="list-style-type: none"> <li>• Starting with 2020/2021, the activities related to the discipline "Ethics and academic integrity in scientific research and dissemination of results" are carried out in the Virtual Campus platform of the Polytechnic University of Timișoara.</li> <li>• <b>MASTER disciplines</b>, which were not previously attended by the doctoral student.</li> <li>• <b>TUTORIAL courses</b>: on the subject of doctoral research (based on individual study proposed and mentored, as a holder, by the doctoral supervisor).</li> </ul> <p>For all subjects within the training program based on advanced university studies, the courses are held by teachers or researchers who have the quality of doctoral supervisor / habilitated, professor / CS I or associate professor / CS II with proven expertise in the field of the subjects taught.</p> <p><b>Starting from 2021</b>, the transversal discipline has the name "Ethics and academic integrity in scientific research and dissemination of results", headed by Prof. univ. dr. eng. Nicolae Vaszilcsin.</p> <p>The course sheet is public and can be accessed at:  <a href="http://www.upt.ro/img/files/2021-2022/doctorat/EIACSDR/SYLLABUS_EIACSDR-2021-2022.pdf">http://www.upt.ro/img/files/2021-2022/doctorat/EIACSDR/SYLLABUS_EIACSDR-2021-2022.pdf</a></p> <p>For the field of Environmental Engineering, an example cannot be generated, as there are no doctoral students in the internship, but as an example we present the disciplines of the training program based on advanced university studies and their holders (which constitute Annex 1 to the doctoral study contract of each doctoral student) for doctoral students in the field of Chemical Engineering (<u>Anexa A.3.1.3.</u>).</p>	
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	<p><b>*A.3.1.4.</b> The share of doctoral supervisors who simultaneously coordinate more than 8 doctoral students, but not more than 12, during their doctoral studies<sup>1</sup>, does not exceed 20%.</p>	<p><b>*A.3.1.4.</b> There are no doctoral students enrolled in the <b>field of Environmental Engineering</b>, consequently the indicator cannot be quantified.</p> <p style="text-align: center;">NOT APPLICABLE</p>	<p><i>Fulfilled</i></p>
<p><b>A.3.2.</b> The doctoral supervisors in the field carry out an internationally visible scientific activity.</p>	<p><b>A.3.2.1.</b> At least 50% of the doctoral supervisors in the field under evaluation present at least 5 publications indexed Web of Science or ERIH in journals with an impact factor or other achievements, with relevant significance for the respective field, in which there are international contributions that reveal a progress in scientific research - development - innovation for the evaluated field.</p> <p>The mentioned doctoral supervisors have international visibility in the last five years, consisting of: membership in the scientific committees of international publications and conferences; membership in the boards of international professional associations; the quality of guest at conferences or groups of experts held abroad or the quality of member of committees for the defense of doctoral theses at universities abroad</p>	<p><b>A.3.2.1.</b> All the 3 PhD supervisors in the field of <b>Environmental Engineering</b> meet this criterion.</p> <p><u>Anexa A.3.2.1.</u> – presents by name the doctoral supervisors of the field <b>Environmental Engineering</b>, elements of international visibility, respectively <i>Lists of 5 publications or other achievements and participation as a member of commissions/groups abroad.</i></p>	<p><i>Fulfilled</i></p>

	<p>or in co-tutelage with a university abroad. For the branches of Arts and Sports Science and Physical Education, the doctoral supervisors will prove their international visibility in the last 5 years by being a member of the boards of professional associations, by being a member of the organizing committees of artistic events and international competitions, respectively by being a member of juries or arbitration teams within artistic events or international competitions.</p>																									
	<p><b>*A.3.2.2.</b> At least 50% of the doctoral supervisors assigned to a field of doctoral studies continue to be scientifically active, obtaining at least 25% of the score required by the CNATDCU minimum standards required at the date of evaluation, necessary and mandatory for obtaining the habilitation certificate, based on the scientific results of the last 5 years.</p>	<p><b>*A.3.2.2.</b> The nominal situation regarding the fulfillment of this criterion for the period 2019-2024 is shown in the following table:</p> <table border="1" data-bbox="994 869 1890 1422"> <thead> <tr> <th rowspan="2">Criteria</th> <th rowspan="2">CNATDCU minimum conditions (25%)</th> <th>MANEA Florica</th> <th>DUMITREL Gabriela-Alina</th> <th>VANCEA Cosmin</th> </tr> <tr> <th colspan="3">Score achieved in the last 5 years</th> </tr> </thead> <tbody> <tr> <td><b>NT</b></td> <td><math>\geq 7</math></td> <td>24</td> <td>26</td> <td>28</td> </tr> <tr> <td><b>NP</b></td> <td><math>\geq 3</math>, with a minimum of six papers in journals with FI&gt;2</td> <td>21(19)</td> <td>12(6)</td> <td>22(14)</td> </tr> <tr> <td><b>FIC</b></td> <td><math>\geq 5</math></td> <td>77.282</td> <td>36.881</td> <td>60.770</td> </tr> </tbody> </table>	Criteria	CNATDCU minimum conditions (25%)	MANEA Florica	DUMITREL Gabriela-Alina	VANCEA Cosmin	Score achieved in the last 5 years			<b>NT</b>	$\geq 7$	24	26	28	<b>NP</b>	$\geq 3$ , with a minimum of six papers in journals with FI>2	21(19)	12(6)	22(14)	<b>FIC</b>	$\geq 5$	77.282	36.881	60.770	<p><i>Fulfilled</i></p>
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CN	≥ 25	912	422	289									
Meets CNATDCU standards		YES	YES	YES									
<b>B. EDUCATIONAL EFFECTIVENESS</b>													
<b>B.1. Number, quality and diversity of candidates who took part in the admission competition</b>													
Standards	Performance indicators	Findings		Degree of fulfillment of the requirement <i>met/partially met/not met</i>									
<b>B.1.1.</b> The institution organizing doctoral studies has the capacity to attract candidates from outside the higher education institution or in a greater number than the number of places financed from the state budget.	<b>*B.1.1.1.</b> The ratio between the number of master's degree graduates from other higher education institutions in the country or abroad who have registered for the admission competition for doctoral studies in the last 5 years and the number of places financed from the state budget offered for competition within the field of doctoral studies is at least 0.2 or the ratio of the number of candidates in the last five years to the number of places financed from	<p><b>*B.1.1.1.</b> The ratio between master's degree graduates from educational institutions other than IOSUD – UPT, enrolled for doctoral admission (last 5 years) and the number of places financed from the state budget - <b>Environmental Engineering</b> field is not the case because students in this field have not been enrolled.</p> <p style="text-align: center;">NOT APPLICABLE</p>		<i>Fulfilled</i>									

	<p>the state budget put out for competition within the field of doctoral studies is at least 1.2.</p>		
<p><b>B.1.2.</b> Candidates admitted to doctoral studies demonstrate academic, research and professional performance.</p>	<p><b>*B.1.2.1.</b> Admission to doctoral study programs is based on selection criteria that include: the academic, research and professional performance of the candidates, their interest in scientific or artistic/sports research, publications in the field and a proposal for a research topic. An interview with the applicant is a mandatory part of the admission procedure.</p>	<p><b>*B.1.2.1.</b> Admission to doctoral studies in IOSUD-UPT is regulated by the Institutional Procedure regarding the organization and conduct of admission to doctoral studies in UPT, updated annually in order to be in accordance with the legislative regulations.</p> <p>According to this procedure, there is a set of criteria for the selection of candidates (Annex 7 of the Admission Procedure) – <u><a href="#">Anexa B.1.2.1.</a></u></p> <ul style="list-style-type: none"> <li>• Academic performance is quantified by grades N1-N4 in the Selection Criteria.</li> <li>• The interview with the applicant – aims at the quality and clarity of the directions and study intentions materialized in the presentation of the research topic proposal – is quantified based on the N5 grade</li> <li>• The interest in scientific research is quantified in the grade N6 – N8</li> <li>• Publications in the field are quantified in the form of grades N9 – N10</li> </ul> <p>For admission in the academic year 2024/2025, the information is public at:</p> <p><u><a href="http://www.upt.ro/Informatii_admitere----doctorat_1714_ro.html">http://www.upt.ro/Informatii_admitere----doctorat_1714_ro.html</a></u></p> <p>Admission to doctoral studies within IOSUD-UPT takes place on the basis of an admission colloquium.</p> <p>The Council of the Doctoral School of Engineering Studies of IOSUD-UPT establishes and displays, after the registration period, the doctoral admission committees associated with the doctoral fields of IOSUD-UPT. The doctoral admission committee is made up of permanent members, the secretary of the committee and the president of the committee. The permanent members of the commission are the same for both admission sessions.</p>	<p><i>Fulfilled</i></p>

		<a href="http://www.upt.ro/img/files/2023-2024/Admitere/doctorat/REGULAMENT%20ADMITERE%20DOCTORAT%202024.pdf">http://www.upt.ro/img/files/2023-2024/Admitere/doctorat/REGULAMENT%20ADMITERE%20DOCTORAT%202024.pdf</a>	
	<b>B.1.2.2.</b> The expulsion rate of doctoral students, including after dropping out of studies, 3 and 4 years after admission <sup>2</sup> , respectively, does not exceed 30%.	<b>B.1.2.2.</b> List of doctoral students admitted and enrolled in doctoral studies in IOSUD-UPT, for the admission sessions 2020, 2021, 2022, 2023, 2024 who were expelled in the first 3 years of the doctoral program for the doctoral field Environmental <b>Engineering – not applicable.</b>	<i>Fulfilled</i>
<b>B.2. Content of doctoral degree programs</b>			
<b>Standards</b>	<b>Performance indicators</b>	<b>Findings</b>	<b>Degree of fulfillment of the requirement</b> <i>met/partially met/not met</i>
<b>B.2.1.</b> The training program based on advanced university studies is suitable to improve the research skills of doctoral students and strengthen ethical behavior in science.	<b>B.2.1.1.</b> The training program based on advanced university studies includes a minimum of 3 disciplines relevant to the training in scientific research of doctoral students, of which at least one discipline is intended for the in-depth study of research methodology and/or statistical data processing.	<p><b>B.2.1.1.</b> The individual plan for the preparation of the doctoral student through advanced university studies, representing Annex 1 to the Doctoral University Studies Agreement, contains three disciplines relevant for the training in the scientific research of the doctoral student. According to the UPT regulations (footnote 1 in the annex):</p> <p><i>"The individual plan will include the following types of courses:</i></p> <ul style="list-style-type: none"> <li><i>(i) transversal course, organized by the Doctoral School (SD);</i></li> <li><i>(ii) tutorial course on the subject of doctoral research (based on individual study proposed and mentored, as a holder, by the doctoral supervisor);</i></li> <li><i>(iii) course at a master's program (which was not previously attended by the doctoral student).</i></li> </ul> <p><i>The transversal course is compulsory. The other two courses can be optional between type ii) or iii)."</i></p> <ul style="list-style-type: none"> <li>• <b>The transversal course</b> (it is held for all first-year doctoral students), adopted in UPT, is a discipline related to research methodology and</li> </ul>	<i>Fulfilled</i>

		<p>deontology of the scientific researcher, a discipline that in the period 2008-2018 was called <i>Scientific Research, Communication and Deontology</i>, and starting with 2018 it is called <i>Ethics and Academic Integrity in Scientific Research and Dissemination of Results</i>.</p> <p>The course sheet is public and can be found at:</p> <ul style="list-style-type: none"> <li>○ <a href="http://www.upt.ro/Informatii_cscs_419_ro.html">http://www.upt.ro/Informatii_cscs_419_ro.html</a> (2008-2017)</li> <li>○ <a href="http://www.upt.ro/Informatii_etica-si-integritate-academica-in-cercetarea-stiintifica-si-1409_ro.html">http://www.upt.ro/Informatii_etica-si-integritate-academica-in-cercetarea-stiintifica-si-1409_ro.html</a> (present).</li> </ul> <ul style="list-style-type: none"> <li>• Within the discipline there are <b>7 lectures</b>, <b>7 conferences</b> (by different lecturers, all scientific personalities) and <b>7 seminars</b> (by 6 different lecturers, all scientific personalities). This discipline is intended for the in-depth study of research methodology, developing skills and abilities related to research methodology.</li> <li>• The second and third disciplines in the plan are chosen by the scientific supervisor in order to contribute to the deepening of the field and the doctoral theme. In <a href="#">Anexa B.2.1.1-1</a>, individual study plans for the doctoral student are presented for the evaluated field. The record of the results obtained in the disciplines of the individual study plan is kept at the UPT Doctoral School in examination minutes for the disciplines of the Advanced University Training Program, summarized in Annex 2 of the Doctoral Studies Contract (<a href="#">Anexa B.2.1.1-2</a>).</li> </ul> <p>It does not apply to the field of Environmental Engineering, but we can exemplify the fulfillment of the criterion for the field of Chemical Engineering.</p>	
	<p><b>B.2.1.2.</b> There is at least one discipline dedicated to ethics in scientific research and intellectual property or well-defined themes on these topics within a discipline taught in the training program.</p>	<p><b>B.2.1.2.</b> Within the advanced university training program for doctoral students in IOSUD-UPT, the following discipline is included, as mandatory for all doctoral students:</p> <p>"<i>Scientific Research, Communication and Deontology</i>" (2008-2017).</p> <p>The course sheet is public and can be found at:</p> <p><a href="http://www.upt.ro/Informatii_cscs_419_ro.html">http://www.upt.ro/Informatii_cscs_419_ro.html</a></p>	<p><i>Fulfilled</i></p>

		<p><a href="http://www.upt.ro/img/files/2016-2017/doctorat/cscd/170511_CSCD.pdf">http://www.upt.ro/img/files/2016-2017/doctorat/cscd/170511_CSCD.pdf</a></p> <p><b>Starting with 2018</b>, the transversal discipline is called "<i>Ethics and academic integrity in scientific research and dissemination of results</i>".</p> <p><b>Starting with the academic year 2021-2022</b>, the transversal discipline is called "<i>Ethics and academic integrity in scientific research and dissemination of results</i>" and is taught in English.</p> <p>The course sheet is public and can be found at:</p> <ul style="list-style-type: none"> <li>○ <a href="https://www.upt.ro/img/files/2023-2024/doctorat/EIACSDR/Syllabus_EAISRRD_2023-2024.pdf">https://www.upt.ro/img/files/2023-2024/doctorat/EIACSDR/Syllabus_EAISRRD_2023-2024.pdf</a> (prezent 2023-2024).</li> </ul> <p>The subject sheets for the academic years 2023/2024, 2022/2023, 2021/2022, 2020/2021 are presented in <a href="#">Anexa B.2.1.2.</a></p>	
	<p><b>B.2.1.3.</b> IOSUD has created the mechanisms to ensure that the training program based on advanced university studies, related to the evaluated field, aims at "learning outcomes", specifying the knowledge, skills and responsibility and autonomy that doctoral students should acquire after completing each discipline or through research activities<sup>3</sup>.</p>	<p><b>B.2.1.3.</b> The main objective of the doctoral degree programs is to prepare doctoral students, through mentored doctoral research, to become independent scientific researchers, a quality confirmed by obtaining the doctoral title following the public defense of the doctoral thesis, with the fulfillment of the minimum performance indicators established by IOSUD-UPT, or the indicators established by the CNATDCU specialized commissions if they exceed the minimum UPT indicators.</p> <p>Currently, the competences, skills and abilities obtained by doctoral students by going through the disciplines within the advanced university training program are specified in the course sheets as follows:</p>	<p><i>Fulfilled</i></p>

		<ul style="list-style-type: none"> <li>• For the transversal course, followed by all doctoral students, competences and skills related to the research methodology (structured on projects specific to the scientific research, technological development and innovation based on research and development) are developed, but also the correct attitude in relation to the norms of research ethics and the dissemination of research results, according to the discipline sheet of the transversal course (<a href="#">Anexa B.2.1.2.</a>), which for the academic year 2023-2023 can be found publicly at: <a href="https://www.upt.ro/img/files/2023-2024/doctorat/EIACSDR/Syllabus_EAISRRD_2023-2024.pdf">https://www.upt.ro/img/files/2023-2024/doctorat/EIACSDR/Syllabus_EAISRRD_2023-2024.pdf</a></li> <li>• For the subjects in master's programs, recommended to the doctoral student by the doctoral supervisor, the competences, skills and aptitudes developed can be found in the discipline sheet, according to <a href="#">Anexa B.2.1.3-1.</a> – Example of the master's course sheet. By going through such master's disciplines, complementary to the previous master's level training, the doctoral student acquires additional professional skills correlated with the theme of the doctoral thesis.</li> <li>• Following the completion of the tutorial courses, the doctoral student deepens the understanding of topics specific to the doctoral theme, indicated by the doctoral supervisor, the examination being made by the doctoral supervisor together with the guidance committee.</li> <li>• The subjects of the training program based on advanced university studies or doctoral research activities aim to acquire the competences and skills related to the 8th level of qualification according to the National Qualifications Framework (CNC). In this regard, IOSUD-UPT applies a procedure for verifying the fulfillment of the requirements of doctoral studies (<a href="#">Anexa B.2.1.3.</a>).</li> </ul>	
	<p><b>B.2.1.4.</b> During the entire duration of the doctoral training internship, doctoral students in the field benefit</p>	<p><b>B.2.1.4.</b> After enrolling the doctoral student following the admission session for doctoral studies in IOSUD-UPT, the doctoral supervisor</p>	<p><i>Fulfilled</i></p>

	<p>from the counseling / guidance of functional guidance committees, an aspect reflected through guidance and points of view expressed in writing or regular meetings.</p>	<p>proposes the composition of the guidance committee / the guidance and academic integrity committee, which is approved by the Director of the Doctoral School.</p> <ul style="list-style-type: none"> <li>• The Guidance Committee / Academic Integrity and Guidance Committee includes specialists in the field and theme of the doctoral thesis, who assist and guide the doctoral student on aspects specific to the doctoral research program.</li> <li>• The Supervisory Committee / the Academic Integrity and Guidance Committee participates in all public meetings in which the doctoral student presents the doctoral research project, respectively the research reports on the dates established in the summary sheet of the research program.</li> <li>• The Guidance Committee / the Guidance and Academic Integrity Committee records the presentation by the doctoral student of the activities provided in the summary sheet of the scientific research program and mentions whether the activity is identical to the one provided for in it, expressing its point of view on the importance and level of the activity performed (footnote 4 of the evaluation report of the activities in the scientific research program).</li> </ul> <p>In <a href="#">Anexa B.2.1.4.</a> for example, documents appointing the Guidance Committee / Academic Integrity and Guidance Committee and minutes of the doctoral research project and research reports for doctoral students enrolled in the field of <b>Chemical Engineering are presented.</b></p>	
	<p><b>B 2.1.5.</b> For a field of doctoral study, the ratio of the number of doctoral students to the total number of teaching staff/researchers providing guidance should not be higher than 3:1.</p>	<p><b>B.2.1.5.</b> <b>Environmental engineering – not applicable.</b></p>	<p><i>Fulfilled</i></p>

<b>B.3. Results of doctoral studies and procedures for their evaluation</b>			
<b>Standards</b>	<b>Performance indicators</b>	<b>Findings</b>	<b>Degree of fulfillment of the requirement <i>met/partially met/not met</i></b>
<p><b>B.3.1.</b> The research is capitalized by doctoral students through presentations at scientific conferences, scientific publications, through technology transfer, patents, products, service orders.</p>	<p><b>B.3.1.1.</b> For the evaluated field there is at least one article or other relevant contribution per doctoral student who has obtained the doctoral degree in the last 5 years. The members of the evaluation committee randomly select for analysis 5 such relevant articles/contributions per field of doctoral studies. At least 3 of the selected articles present significant original contributions in the targeted field.</p>	<p><b>B.3.1.1.</b> Environmental Engineering Field</p> <ul style="list-style-type: none"> <li>• Number of doctoral students who obtained the title of doctor during the period 2020-2024: - Not applicable.</li> <li>• List of relevant papers written by PhD students who obtained the PhD title in 2020-2024 - Not applicable.</li> </ul>	<i>Fulfilled</i>
	<p><b>*B.3.1.2.</b> The ratio between the number of presentations of doctoral students who have completed their doctoral studies in the evaluated period (last 5 years), including posters, exhibitions, held at prestigious international events (held in the country or abroad), and the number of doctoral students who have completed their doctoral studies in the evaluated period (last 5 years) is at least equal to 1.</p>	<p><b>*B.3.1.2.</b> Environmental Engineering Field</p> <p>There are no PhD students who have obtained the title of PhD in the field of Environmental Engineering in the period 2020-2024 - Not applicable</p> <ul style="list-style-type: none"> <li>• There are no papers presented at conferences.</li> </ul> <p>Prestigious international events are organized annually, but as there is no field of <b>Environmental Engineering</b>, the list of students who obtained the title of doctor in the period 2020-2024 and the number of participations in conferences cannot be drawn up.</p>	<i>Fulfilled</i>



<p><b>B.3.2.</b> The Doctoral School calls on a significant number of external scientific reviewers in the committees for the public defense of doctoral theses for the analyzed field.</p>	<p><b>*B.3.2.1.</b> The number of doctoral theses assigned to a certain reviewer coming from a higher education institution, other than IOSUD evaluated, must not exceed two (2) for theses coordinated by the same doctoral supervisor, in one year.</p>	<p><b>*B.3.2.1.</b> In the period 2020-2024, no doctoral theses in the field of <b>Environmental Engineering</b> were defended.</p>	<p><i>Fulfilled</i></p>
	<p><b>*B.3.2.2.</b> The ratio between the number of doctoral theses assigned to a certain scientific reviewer from a higher education institution other than the one in which the doctoral thesis defense is organized and the number of doctoral theses defended in the same doctoral field within the doctoral school must not be higher than 0.3, in relation to the situation recorded in the last 5 years. It is only analyzed if in the evaluated doctoral field at least 10 doctoral theses have been defended in the last 5 years.</p>	<p><b>*B.3.2.2.</b> This is NOT applicable. There are NO students enrolled in the field of <b>Environmental Engineering</b>, yet.</p>	<p><i>Fulfilled</i></p>
<p><b>C. QUALITY MANAGEMENT</b></p>			
<p><b>C.1. Existence and periodic implementation of the internal quality assurance system</b></p>			
<p><b>Standards</b></p>	<p><b>Performance indicators</b></p>	<p><b>Findings</b></p>	<p><b>Degree of fulfillment of the requirement</b> <i>met/partially met/not met</i></p>
	<p><b>C.1.1.1.</b> The doctoral school in which the field of doctoral studies belongs,</p>	<p><b>C.1.1.1-a</b> <a href="#">Anexa C.1.1.1-a.</a></p>	<p><i>Fulfilled</i></p>

<p><b>C.1.1. The</b> institutional framework is in place and policies and procedures are in place for monitoring the relevant internal quality assurance.</p>	<p>shall prove the constant development of the process of evaluation and internal quality assurance in accordance with a procedure developed and applied at the level of IOSUD, among the criteria evaluated being mandatory:</p> <p>(a) the scientific activity of the doctoral supervisors;</p>	<p>In UPT, the teaching and research staff periodically present the results of the research activity to the management of the department / faculty / university. The results are presented in standardized documents at national level, centralized at department and university level, respectively, and uploaded to the MEC's IT platform. The results are taken into account in the funding allocation process by the Ministry of Education and verified/validated by CNFIS.</p> <p>Apart from these reports, there are also internal reports in the UPT that are capitalized in the process of allocating the departments' funding funds (for example, internal reports, electronic evaluation models / grids used to evaluate the results of teaching and research activity in order to obtain the merit grade).</p> <p>These results are discussed, analyzed in the Board of Directors and, as the case may be, in the departments, and presented and validated in <a href="#">the Annual Report of the Rector of UPT</a> and in other institutional documents, such as, for example, the <a href="#">Research Report and  http://www.research.upt.ro/page4.html#features02-8u3</a>.</p> <p>The reports are used for monitoring and evaluating the outcomes and performance of teaching and research activities, both in terms of meeting the minimum standards developed / approved based on art. 303 para. (4) of LEN 1/2011, cf. HS no. 135/17.04.2014 as well as the fulfillment of OMENCŞ no. 6129/2016, regarding the approval of the minimum necessary and mandatory standards for the conferral of teaching titles in higher education, professional degrees in research and development, the quality of doctoral supervisor and the habilitation certificate, respectively Law 199/2023.</p>	
	<p>(b) the infrastructure and logistics necessary to carry out the research activity;</p>	<p><b>C.1.1.1-b.</b></p> <p>The "UPT Strategic Development Plan for the period 2016-2020", available at <a href="https://www.upt.ro/img/files/ps/2016-2020/Plan-strategic-UPT-2016-2020.pdf">https://www.upt.ro/img/files/ps/2016-2020/Plan-strategic-UPT-2016-2020.pdf</a>, envisaged the continuation of activities and the development of mechanisms to support research of excellence in the university. The UPT strategic development plan for the period 2020-2024 can be found at <a href="https://www.upt.ro/img/files/ps/2020-">https://www.upt.ro/img/files/ps/2020-</a></p>	<p><i>Fulfilled</i></p>

		<p><a href="#">2024/Plan_strategic_FSC_2020-2024.pdf</a>, one of the directions of action to achieve the goals being the development of the UPT research infrastructure at the level of international standards.</p> <p>UPT's research activity is carried out mainly in the 25 research centers of UPT. Their research infrastructure is highlighted on the ERRIS platform, at the link:</p> <p><a href="https://eeris.eu/ERIO-2000-000R-0036">https://eeris.eu/ERIO-2000-000R-0036</a></p> <p>Among the most important research infrastructures in UPT we mention <i>the Research Institute for Renewable Energies – ICER</i>. It was financed through the POSCCE operational program, priority axis 2 "Competitiveness through Research, Technological Development and Innovation", between 2009–2014. The total value of the project was <b>66,892,357 lei</b>. 18 new research laboratories were created and 5 were modernized, 120 pieces of equipment were purchased, 12 of them having a value of over EUR 100,000 each. Many of the high-performance equipment available at ICER are unique within the Timisoara University Center. They are used in research grants in interdisciplinary fields ongoing in UPT: Complex Projects, PED, Bridge, H2020, cross-border projects, etc.</p> <p>Another research center of UPT with an outstanding infrastructure is the <i>Research Center for Environmental Science and Engineering</i>, established in 1999. The research areas focus on the development of innovative technologies for water treatment and purification, process optimization and modeling, environmental impact assessment studies, waste recovery in the context of the circular economy. Through a PNCDI-PERFORM-CDI@UPT100 contract, CSIM benefited from research infrastructure worth <b>337,000 lei</b>.</p> <p>The development of UPT's research infrastructure is carried out through the research and development contracts carried out in the university, obtained through national and international competitions, but also</p>	
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		through UPT's internal research grants, organized in recent years, financed from UPT's own income and intended for young researchers.	
	(c) the regulations and procedures on the basis of which doctoral studies are conducted.	<p><b>C.1.1.1-c</b> – continuous updating of the regulations, procedures, and work instructions for harmonizing with the accentuated dynamics of the national legislation, but also with the evolution of the requirements of doctoral students or doctoral supervisors.</p> <p>The procedure for admission to doctoral studies is updated annually, in accordance with the dynamics of the national legislation.</p> <p>For the academic year 2024-2025, the procedure can be found at:  <a href="http://www.upt.ro/img/files/2023-2024/Admitere/doctorat/REGULAMENT%20ADMITERE%20DOCTORAT%202024.pdf">http://www.upt.ro/img/files/2023-2024/Admitere/doctorat/REGULAMENT%20ADMITERE%20DOCTORAT%202024.pdf</a></p> <p>The doctoral university study contract is updated annually.</p> <p>The documents related to doctoral students enrolled in the period 2020-2024 can be found publicly at:  <a href="http://www.upt.ro/Informatii_documentele-doctoranzilor-inmatriculati-in-perioada-2005-201_289_ro.html">http://www.upt.ro/Informatii_documentele-doctoranzilor-inmatriculati-in-perioada-2005-201_289_ro.html</a></p>	<i>Fulfilled</i>
	(d) the scientific activity of doctoral students;	<b>C.1.1.1-d</b> – According to the internal regulations in IOSUD – UPT, the minimum criterion for the defense of the doctoral thesis is the publication of a number of 2 scientific papers indexed in the WOS database. This aspect is regulated in the Doctoral Studies Contract, at art. 18.	<i>Fulfilled</i>

		<p><b>X. CRITERII DE PERFORMANȚĂ ASUMATE ÎN CADRUL PROGRAMULUI DE STUDII DOCTORALE</b>  <b>Art.18</b></p> <p>Susținerea publică a tezei de doctorat este condiționată de îndeplinirea standardelor naționale minimale pentru acordarea titlului de doctor, elaborate de CNATDCU, corespunzătoare domeniului de doctorat în care se încadrează teza, respectiv de criteriul de performanță minimal al IOSUD UPT.</p> <p>Se constituie în criteriu de performanță minimal al IOSUD - UPT publicarea sau acceptarea spre publicare, sub afiliere UPT a autorului student-doctorand, a 2 lucrări indexate Web of Science (în reviste de specialitate sau volumele unor manifestări științifice din străinătate).</p> <p>În cazul în care standardele naționale minimale elaborate de CNATDCU pentru acordarea diplomei de doctor exced celor proprii ale UPT, prevalează criteriile CNATDCU.</p> <p>The scientific activity of doctoral students is monitored by the guidance committees during the doctoral internship.</p> <p>At the same time, starting with doctoral students enrolled in the 2021/2022 academic year, the activity of UPT doctoral students is monitored throughout the study period in order to be able to intervene, with the help of doctoral supervisors, to increase the number of completed theses and to have a relevant activity report for each doctoral student. UPT is the only university in Romania where doctoral students report annually the results of their research activity. Based on this report, the ranking of doctoral students at field level is made, followed eventually, depending on the position in the ranking, by the revision of the scholarship status in a positive or negative sense.</p> <p>In addition, within IOSUD – UPT, the program to support doctoral students for the publication of papers in WOS journals is carried out, as well as participation in conferences with WOS-indexed proceedings. Details can be found at:</p> <p><a href="http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Programul-de-finantare-ISI_27_ro.html">http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Programul-de-finantare-ISI_27_ro.html</a></p>	
	(e) the training program based on advanced university studies of doctoral students.	<b>C.1.1.1-e.</b> The subjects in the training program based on advanced university studies related to the field are supported by teachers or researchers who have the quality of doctoral supervisor / habilitated,	<i>Fulfilled</i>

		<p>professor / CS I or associate professor / CS II with proven expertise in the field of the subjects taught.</p> <p>The training program based on advanced university studies includes the following <i>types of disciplines</i>:</p> <ul style="list-style-type: none"> <li>• <b>TRANSVERSAL discipline</b>: it is defended for all first-year doctoral students.</li> </ul> <p>Between <b>2008 and 2017</b>, the discipline was called: "Scientific research, communication and deontology". The course sheet is public and can be found at:</p> <p><a href="http://www.upt.ro/Informatii_cscs_419_ro.html">http://www.upt.ro/Informatii_cscs_419_ro.html</a>.</p> <p><b>Starting with 2018</b>, the transversal discipline is called "Ethics and academic integrity in scientific research and dissemination of results"</p> <p><b>Starting with the academic year 2021-2022</b>, the transversal discipline is called "<i>Ethics and academic integrity in scientific research and dissemination of results</i>" and is taught in English.</p> <p>The course sheet is public and can be found and can be accessed from:</p> <p><a href="https://www.upt.ro/Informatii_etica-si-integritate-academica-in-cercetarea-stiintifica-si-2435_ro.html">https://www.upt.ro/Informatii_etica-si-integritate-academica-in-cercetarea-stiintifica-si-2435_ro.html</a></p> <p><a href="http://www.upt.ro/img/files/2021-2022/doctorat/EIACSDR/SYLLABUS_EIACSDR-2021-2022.pdf">http://www.upt.ro/img/files/2021-2022/doctorat/EIACSDR/SYLLABUS_EIACSDR-2021-2022.pdf</a></p> <p>Within the discipline, the following are taught:</p> <ul style="list-style-type: none"> <li>• <b>7 course lessons</b> – discipline holder: <i>Prof.univ.dr. eng. Nicolae Vaszilcsin</i>,</li> <li>• <b>7 conferences</b> – held by professors, all scientific personalities: <i>Prof.univ.dr. eng. Radu Vasiu, Prof.univ.dr. eng. Ștefan Preitl, Prof.univ.dr. eng. Radu Marinescu, Prof.univ.dr. eng. Ștefan Holban, Acad.prof.univ.dr. eng. Ion Boldea, Prof.univ.dr. eng. Romeo Susan Resiga, Acad.prof.univ.dr. eng. Dan Dubina</i></li> </ul>	
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	<p>(f) Social and academic support services (including participation in various events, publication of articles and so on) and counselling services made available to doctoral students.</p>	<p>(f) Within IOSUD-UPT carries out its activity the Center for Career Counseling and Guidance, a structure of the Polytechnic University of Timisoara (UPT) with the mission of ensuring the best possible information, professional guidance and social integration of students:  <a href="https://www.cicoc.upt.ro/">https://www.cicoc.upt.ro/</a>  <a href="https://www.facebook.com/CCOC.UPT">https://www.facebook.com/CCOC.UPT</a></p>	<p><i>Fulfilled</i></p>

		<p>Also, within the transversal discipline of "Ethics and academic integrity in scientific research and dissemination of results", courses and seminars are organized on the participation of doctoral students in scientific events and the publication of articles in specialized journals:</p> <p><a href="https://www.upt.ro/img/files/2023-2024/doctorat/EIACSDR/Syllabus_EAISRRD_2023-2024.pdf">https://www.upt.ro/img/files/2023-2024/doctorat/EIACSDR/Syllabus_EAISRRD_2023-2024.pdf</a></p> <p>At the same time, IOSUD-UPT financially supports the participation of doctoral students in scientific events and the publication of scientific papers in WOS indexed journals:</p> <p><a href="http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Programul-de-finantare-ISI_27_ro.html">http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Programul-de-finantare-ISI_27_ro.html</a></p> <p>In 2018, IOSUD-UPT launched a scholarship program for doctoral students participating in prestigious international conferences organized by UPT:</p> <p><a href="http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Burse-pentru-doctoranzi-care-participa-la-conferinte-organizate-de-UPT_126_ro.html">http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Burse-pentru-doctoranzi-care-participa-la-conferinte-organizate-de-UPT_126_ro.html</a></p>	
	<p><b>*C.1.1.2.</b> During the doctoral training period, evaluation mechanisms are implemented to identify the needs, as well as the general level of satisfaction with the doctoral study program of the doctoral students, in order to continuously improve the academic and administrative processes. Following the analysis of the results</p>	<p><b>*C.1.1.2.</b> During the doctoral internship, doctoral students are periodically questioned about the level of satisfaction regarding the advanced university training program (<a href="#">Anexa C.1.1.2-1.</a>) and the scientific research program (<a href="#">Anexa C.1.1.2-2.</a>). In <a href="#">Anexa C.1.1.2-3.</a> a set of anonymous questionnaires from doctoral students enrolled in the field of Civil Engineering and Installations is presented. As there are no students enrolled in the field of Environmental Engineering, we do not have evaluation questionnaires from them.</p>	<p><i>Fulfilled</i></p>



	obtained, the elaboration and implementation of a plan of measures are proved.	Following the analysis of the results obtained, the plan of measures presented in <a href="#">Anexa C.1.1.2-4</a> was developed.	
<b>C.2. Transparency of information and accessibility to learning resources</b>			
<b>Standards</b>	<b>Performance indicators</b>	<b>Findings</b>	<b>Degree of fulfillment of the requirement</b> <i>met/partially met/not met</i>
<b>C.2.1.</b> The information of interest for doctoral students, future candidates, respectively the information of public interest are available for consultation in electronic format.	<b>C.2.1.1.</b> IOSUD publishes, on the website of the higher education institution, in compliance with the regulations in force regarding data protection, information such as:	<b>C.2.1.1.</b> The Doctoral School of Engineering Studies within IOSUD-UPT has published on the UPT website, in the section related to doctoral studies, <a href="http://www.upt.ro/Informatii_studii-universitare-de-doctorat_266_ro.html">http://www.upt.ro/Informatii_studii-universitare-de-doctorat_266_ro.html</a> updated information regarding:	<i>Fulfilled</i>
	a) the regulations of the doctoral school;	a) The Regulations of the doctoral school are part of the "Institutional Regulation for the Organization of Doctoral Studies in the Polytechnic University of Timișoara", <a href="http://www.upt.ro/administrare/dgac1/file/2011-2012/regulamente/Anexa_10_CartaUPT_Regulament_doctorat.pdf">http://www.upt.ro/administrare/dgac1/file/2011-2012/regulamente/Anexa_10_CartaUPT_Regulament_doctorat.pdf</a> <a href="http://www.upt.ro/img/files/hca/2024/HCA%20157%20din%2009.07.2024%20de%20postat.pdf">http://www.upt.ro/img/files/hca/2024/HCA%20157%20din%2009.07.2024%20de%20postat.pdf</a> și <a href="http://www.upt.ro/img/files/hs/2024/HS%20nr.%2094_11.07.2024_p_rivind%20aprobarea%20Regulamentului%20org.%20studii%20doctorat_IOSUD-UPT.pdf">http://www.upt.ro/img/files/hs/2024/HS%20nr.%2094_11.07.2024_p_rivind%20aprobarea%20Regulamentului%20org.%20studii%20doctorat_IOSUD-UPT.pdf</a>  Considering that in IOSUD-UPT there is only one doctoral school that unitarily manages all doctoral fields, a single document was chosen to include the regulations for the organization and conduct of doctoral studies.	<i>Fulfilled</i>

	<p><b>b) Admission regulations</b></p>	<p><b>b)</b> The admission regulation is updated annually, in order to bring it into line with the legislative changes at national level, respectively with the number and distribution by field of doctoral places.</p> <p>The institutional procedures regarding the organization and conduct of admission to doctoral studies in IOSUD-UPT for the years 2020 - 2024 can be found publicly at the addresses.</p> <ul style="list-style-type: none"> <li>• 2024: <a href="http://www.upt.ro/img/files/2023-2024/Admitere/doctorat/REGULAMENT%20ADMITERE%20DOCTORAT%202024.pdf">http://www.upt.ro/img/files/2023-2024/Admitere/doctorat/REGULAMENT%20ADMITERE%20DOCTORAT%202024.pdf</a></li> <li>• 2023: <a href="http://www.upt.ro/img/files/2022-2023/Admitere/Doctorat/PROCEDURA%20ADMITERE%202023.pdf">http://www.upt.ro/img/files/2022-2023/Admitere/Doctorat/PROCEDURA%20ADMITERE%202023.pdf</a></li> <li>• 2022: <a href="http://www.upt.ro/img/files/2021-2022/Admitere/Doctorat/PROCEDURA_ADMITERE_2022.pdf">http://www.upt.ro/img/files/2021-2022/Admitere/Doctorat/PROCEDURA_ADMITERE_2022.pdf</a></li> <li>• 2021: <a href="http://www.upt.ro/img/files/2020-2021/admitere/doctorat/HCA_nr67_25_05_2021_Procedura_admitere_doctorat_Anexe.pdf">http://www.upt.ro/img/files/2020-2021/admitere/doctorat/HCA_nr67_25_05_2021_Procedura_admitere_doctorat_Anexe.pdf</a></li> <li>• 2020: <a href="http://www.upt.ro/img/files/2019-2020/admitere/doctorat/HS_156_11-06-2020-IOSUD-UPT-admitere-2020_PROCEDURA_anexe.pdf">http://www.upt.ro/img/files/2019-2020/admitere/doctorat/HS_156_11-06-2020-IOSUD-UPT-admitere-2020_PROCEDURA_anexe.pdf</a></li> </ul>	<p><i>Fulfilled</i></p>
	<p><b>c) the doctoral studies contract;</b></p>	<p><b>c)</b> The doctoral study contracts can be found publicly at the following addresses:</p> <p>Year 2024/2025 and Year 2023/2024:  <a href="http://www.upt.ro/Informatii_documentele-doctoranzilor-inmatriculati-incepand-cu-anul-201_286_ro.html">http://www.upt.ro/Informatii_documentele-doctoranzilor-inmatriculati-incepand-cu-anul-201_286_ro.html</a></p>	<p><i>Fulfilled</i></p>

		<p>Year 2022/2023:</p> <ul style="list-style-type: none"> <li>• Scholarship: <a href="http://www.upt.ro/img/files/2022-2023/doctorat/Contract_Studii_Doctorale_bursa_2022_V4.doc">www.upt.ro/img/files/2022-2023/doctorat/Contract_Studii_Doctorale_bursa_2022_V4.doc</a></li> <li>• UPT Own Income Scholarship: <a href="http://www.upt.ro/img/files/2022-2023/doctorat/Contract_Studii_Doctorale_bursa_venituri%20proprii_2022_V4.doc">www.upt.ro/img/files/2022-2023/doctorat/Contract_Studii_Doctorale_bursa_venituri%20proprii_2022_V4.doc</a></li> <li>• No scholarship: <a href="http://www.upt.ro/img/files/2022-2023/doctorat/Contract_Studii_Doctorale_fara%20bursa_2022_V4.doc">www.upt.ro/img/files/2022-2023/doctorat/Contract_Studii_Doctorale_fara%20bursa_2022_V4.doc</a></li> <li>• Fee: <a href="http://www.upt.ro/img/files/2022-2023/doctorat/Contract_Studii_Doctorale_taxa_frecventa%20redusa_2022_V4.doc">www.upt.ro/img/files/2022-2023/doctorat/Contract_Studii_Doctorale_taxa_frecventa%20redusa_2022_V4.doc</a></li> </ul> <p>Year 2021/2022:</p> <ul style="list-style-type: none"> <li>• Scholarship: <a href="http://www.upt.ro/img/files/2021-2022/doctorat/Contract_Studii_Doctorale_bursa_2021.doc">www.upt.ro/img/files/2021-2022/doctorat/Contract_Studii_Doctorale_bursa_2021.doc</a></li> <li>• UPT Own Income Scholarship: <a href="http://www.upt.ro/img/files/2021-2022/doctorat/Contract_Studii_Doctorale_bursa_venituri%20proprii_2021.doc">www.upt.ro/img/files/2021-2022/doctorat/Contract_Studii_Doctorale_bursa_venituri%20proprii_2021.doc</a></li> <li>• Without scholarship: <a href="http://www.upt.ro/img/files/2021-2022/doctorat/Contract_Studii_Doctorale_fara%20bursa_2021.doc">www.upt.ro/img/files/2021-2022/doctorat/Contract_Studii_Doctorale_fara%20bursa_2021.doc</a></li> <li>• Fee: <a href="http://www.upt.ro/img/files/2021-2022/doctorat/Contract_Studii_Doctorale_taxa_frecventa%20redusa_2021.doc">www.upt.ro/img/files/2021-2022/doctorat/Contract_Studii_Doctorale_taxa_frecventa%20redusa_2021.doc</a></li> </ul> <p>Year 2020/2021:</p>	
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		<ul style="list-style-type: none"> <li>• Bursă: <a href="http://www.upt.ro/img/files/2020-2021/doctorat/Contract_Studii_Doctorale_bursa_2020.pdf">http://www.upt.ro/img/files/2020-2021/doctorat/Contract_Studii_Doctorale_bursa_2020.pdf</a></li> <li>• UPT Own Income Scholarship: <a href="http://www.upt.ro/img/files/2020-2021/doctorat/Contract_Studii_Doctorale_bursa_venituri_proprii_2020.pdf">http://www.upt.ro/img/files/2020-2021/doctorat/Contract_Studii_Doctorale_bursa_venituri_proprii_2020.pdf</a></li> <li>• No scholarship: <a href="http://www.upt.ro/img/files/2020-2021/doctorat/Contract_Studii_Doctorale_fara_bursa_2020.pdf">http://www.upt.ro/img/files/2020-2021/doctorat/Contract_Studii_Doctorale_fara_bursa_2020.pdf</a></li> <li>• Fee: <a href="http://www.upt.ro/img/files/2020-2021/doctorat/Contract_Studii_Doctorale_taxa_frecventa_reduasa_2020.pdf">http://www.upt.ro/img/files/2020-2021/doctorat/Contract_Studii_Doctorale_taxa_frecventa_reduasa_2020.pdf</a></li> </ul> <p>Their format is a password-protected word file, so that doctoral students had the possibility to fill in only the fields with personal data, without being able to intervene on the framework contract.</p>	
	<p><b>d)</b> the regulation for the completion of studies, including the procedure for public defense of the thesis;</p>	<p><b>d)</b> The regulation for the completion of doctoral studies is detailed in the "Working Instruction for the completion of doctoral studies and public defense of doctoral theses in UPT", <a href="http://www.upt.ro/img/files/2018-2019/doctorat/HCA_nr71_06-2018_Instructiune_de_lucru_sustinere_publica.pdf">http://www.upt.ro/img/files/2018-2019/doctorat/HCA_nr71_06-2018_Instructiune_de_lucru_sustinere_publica.pdf</a></p> <p>The procedure for public defense of the doctoral thesis and for the constitution of the doctoral file used since 2016 is available at <a href="http://www.upt.ro/img/files/2015-2016/doctorat/Procedura_sustinere_teza_incepan_du_04-2016.pdf">http://www.upt.ro/img/files/2015-2016/doctorat/Procedura_sustinere_teza_incepan_du_04-2016.pdf</a></p> <p>The work instruction for the completion of doctoral studies and the public defense of the doctoral thesis HCA 5/15.01.2019 is publicly available at:</p>	<p><i>Fulfilled</i></p>

[http://upt.ro/img/files/2019-2020/doctorat/HCA\\_5\\_din\\_2019\\_Instructiune\\_de\\_lucru\\_sustinere\\_teze\\_doctorat.pdf](http://upt.ro/img/files/2019-2020/doctorat/HCA_5_din_2019_Instructiune_de_lucru_sustinere_teze_doctorat.pdf)

During the pandemic, for the online defense of doctoral theses, the "Procedure for the online defense of doctoral theses in UPT - academic year 2019-2020" was established (HS no.111/14.05.2020)

which is publicly available at:

[http://www.upt.ro/img/files/hs/2020/14.05.2020/HS\\_111\\_14.05.2020\\_Procedura-sustinere-online-teze-doctorat.pdf](http://www.upt.ro/img/files/hs/2020/14.05.2020/HS_111_14.05.2020_Procedura-sustinere-online-teze-doctorat.pdf)

By HS 231/17.09.2020, the validity of the Procedure for the online defense of doctoral theses in the Polytechnic University of Timișoara in the academic year 2020-2021 was extended and is publicly available at:

[http://upt.ro/img/files/2019-2020/doctorat/HS\\_231\\_17-09-2020\\_Prelungire\\_valabilitate\\_proced\\_sustinere\\_online\\_teze\\_doctorat.pdf](http://upt.ro/img/files/2019-2020/doctorat/HS_231_17-09-2020_Prelungire_valabilitate_proced_sustinere_online_teze_doctorat.pdf)

- On the date of submission of this evaluation file, the "Working Instruction for the completion of doctoral studies and public defense of the doctoral thesis" approved by HCA 87/19.04.2022 is applicable

and is publicly available at:

[http://upt.ro/img/files/2021-2022/doctorat/proced\\_sust\\_publica/HCA\\_87\\_2022\\_Instructiune\\_de\\_lucru\\_sustinere\\_publica\\_teza\\_doctorat.pdf](http://upt.ro/img/files/2021-2022/doctorat/proced_sust_publica/HCA_87_2022_Instructiune_de_lucru_sustinere_publica_teza_doctorat.pdf)

	<p>e) the content of training programs based on advanced university studies;</p>	<p>e) Information on the compulsory transversal discipline for all doctoral students, in the year of advanced university training (first year of the doctoral study program) is available:</p> <ul style="list-style-type: none"> <li>• Academic year 2023-2024: <a href="https://www.upt.ro/Informatii_etica-si-integritate-academica-in-cercetarea-stiintifica-si-2435_ro.html">https://www.upt.ro/Informatii_etica-si-integritate-academica-in-cercetarea-stiintifica-si-2435_ro.html</a></li> <li>• Academic year 2022-2023: <a href="http://www.upt.ro/Informatii_etica-si-integritate-academica-in-cercetarea-stiintifica-si-2168_ro.html">http://www.upt.ro/Informatii_etica-si-integritate-academica-in-cercetarea-stiintifica-si-2168_ro.html</a></li> <li>• Academic year 2021-2022: <a href="http://www.upt.ro/Informatii_etica-si-integritate-academica-in-cercetarea-stiintifica-si-1409_ro.html">http://www.upt.ro/Informatii_etica-si-integritate-academica-in-cercetarea-stiintifica-si-1409_ro.html</a></li> <li>• Academic year 2020-2021: <a href="http://www.upt.ro/Informatii_eiacsdr-2020-2021_1910_ro.html">http://www.upt.ro/Informatii_eiacsdr-2020-2021_1910_ro.html</a></li> </ul> <p>The doctoral study program is customized for each doctoral student, at the proposal of the doctoral supervisor, regarding the master and/or tutorial courses of the advanced university training year, respectively of the doctoral research program.</p>	<p><i>Fulfilled</i></p>
	<p>f) the academic and scientific profile, the thematic areas/research topics of the doctoral supervisors in the field, as well as their institutional contact details;</p>	<p>f) The offer of doctoral supervisors is updated annually in order to organize admission to doctoral studies:</p> <ul style="list-style-type: none"> <li>• Admission 2024: <a href="http://www.upt.ro/Informatii_etica-si-integritate-academica-in-cercetarea-stiintifica-si-2168_ro.html">http://www.upt.ro/Informatii_etica-si-integritate-academica-in-cercetarea-stiintifica-si-2168_ro.html</a></li> <li>• Admission 2023: <a href="http://www.upt.ro/img/files/2022-2023/Admitere/Doctorat/oferte/Oferte_doctorat_IOSUD_UPT_a_dmitere_2023.pdf">http://www.upt.ro/img/files/2022-2023/Admitere/Doctorat/oferte/Oferte_doctorat_IOSUD_UPT_a_dmitere_2023.pdf</a></li> </ul>	<p><i>Fulfilled</i></p>

		<ul style="list-style-type: none"> <li>• Admission 2022: <a href="http://www.upt.ro/img/files/2021-2022/Admitere/Doctorat/Oferte/Oferte_conducatori_de_doctorat_2022_UPT.pdf">http://www.upt.ro/img/files/2021-2022/Admitere/Doctorat/Oferte/Oferte_conducatori_de_doctorat_2022_UPT.pdf</a></li> <li>• Admission 2021: <a href="https://www.upt.ro/img/files/2020-2021/admitere/doctorat/Oferta_conducatori_de_doctorat_2021.pdf">https://www.upt.ro/img/files/2020-2021/admitere/doctorat/Oferta_conducatori_de_doctorat_2021.pdf</a></li> <li>• Admission 2020: <a href="http://www.upt.ro/img/files/2019-2020/admitere/doctorat/Oferta_conducatori_de_doctorat_2020.pdf">http://www.upt.ro/img/files/2019-2020/admitere/doctorat/Oferta_conducatori_de_doctorat_2020.pdf</a></li> </ul> <p>The contact details of the doctoral supervisors can be found at:</p> <p><a href="http://upt.ro/img/files/carte-telefon/Carte_de_telefon_angajati_2023.pdf">http://upt.ro/img/files/carte-telefon/Carte_de_telefon_angajati_2023.pdf</a> and  <a href="http://upt.ro/img/files/2023-2024/doctorat/CONDUCATORI_DOCTORAT_date_de_contact_2024.pdf">http://upt.ro/img/files/2023-2024/doctorat/CONDUCATORI_DOCTORAT_date_de_contact_2024.pdf</a></p>	
	<p><b>g)</b> the list of doctoral students in the field with basic information (year of enrollment; supervisor);</p>	<p><b>g)</b> The list of doctoral students in each field can be found in the publicly available enrollment orders:</p> <ul style="list-style-type: none"> <li>• List of UPT doctoral students enrolled in 2024-2025: <a href="http://upt.ro/img/files/2023-2024/doctorat/Decizie_liste_inmatriculare_candidati_admisi_doctorat_iulie_2024.pdf">http://upt.ro/img/files/2023-2024/doctorat/Decizie_liste_inmatriculare_candidati_admisi_doctorat_iulie_2024.pdf</a> and <a href="http://upt.ro/img/files/2023-2024/doctorat/Decizie_liste_inmatriculare_septembrie_2024.pdf">http://upt.ro/img/files/2023-2024/doctorat/Decizie_liste_inmatriculare_septembrie_2024.pdf</a></li> <li>• List of UPT doctoral students enrolled in 2023-2024: <a href="http://www.upt.ro/img/files/2023-2024/doctorat/Decizie_inmatriculare_drd_iulie_2023.pdf">http://www.upt.ro/img/files/2023-2024/doctorat/Decizie_inmatriculare_drd_iulie_2023.pdf</a></li> </ul>	<p><i>Fulfilled</i></p>

		<p>and  <a href="http://www.upt.ro/img/files/2023-2024/doctorat/Decizie_inmatriculare_drd_sept_2023.pdf">http://www.upt.ro/img/files/2023-2024/doctorat/Decizie_inmatriculare_drd_sept_2023.pdf</a></p> <p>and  <a href="http://www.upt.ro/img/files/2023-2024/doctorat/Decizie_inmatriculare_drd_decembrie_2023.pdf">http://www.upt.ro/img/files/2023-2024/doctorat/Decizie_inmatriculare_drd_decembrie_2023.pdf</a></p> <ul style="list-style-type: none"> <li>• List of UPT doctoral students enrolled in 2022-2023  <a href="http://upt.ro/img/files/2022-2023/doctorat/Ordinul_17462_inmatricularea_doctoranzi_iulie_2022.pdf">http://upt.ro/img/files/2022-2023/doctorat/Ordinul_17462_inmatricularea_doctoranzi_iulie_2022.pdf</a></li> </ul> <p>and  <a href="http://upt.ro/img/files/2022-2023/doctorat/Ordinul_23074_inmatricularea_doctoranzi_septembrie_2022.pdf">http://upt.ro/img/files/2022-2023/doctorat/Ordinul_23074_inmatricularea_doctoranzi_septembrie_2022.pdf</a></p> <ul style="list-style-type: none"> <li>• For the year 2021-2022:  <a href="http://www.upt.ro/img/files/2021-2022/doctorat/Ordinul_13016_din_2021_inmatricularea_doctoranzilor_iulie_2021.pdf">http://www.upt.ro/img/files/2021-2022/doctorat/Ordinul_13016_din_2021_inmatricularea_doctoranzilor_iulie_2021.pdf</a></li> </ul> <p>and  <a href="http://www.upt.ro/img/files/2021-2022/doctorat/Ordinul_18229_din_2021_inmatricularea_doctoranzilor_septembrie_2021.pdf">http://www.upt.ro/img/files/2021-2022/doctorat/Ordinul_18229_din_2021_inmatricularea_doctoranzilor_septembrie_2021.pdf</a></p> <p>and  <a href="http://www.upt.ro/img/files/2021-2022/doctorat/Ordinul_21273_din_2021_inmatricularea_doctoranzilor_octombrie_2021.pdf">http://www.upt.ro/img/files/2021-2022/doctorat/Ordinul_21273_din_2021_inmatricularea_doctoranzilor_octombrie_2021.pdf</a></p> <ul style="list-style-type: none"> <li>• For the year 2020-2021:</li> </ul>	
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		<a href="http://www.upt.ro/img/files/2020-2021/doctorat/Ordinul_10932_din_2020_privind_inmatricularea_doctoranzilor.pdf">http://www.upt.ro/img/files/2020-2021/doctorat/Ordinul_10932_din_2020_privind_inmatricularea_doctoranzilor.pdf</a>	
	<b>h)</b> information about the standards for the elaboration of the doctoral thesis;	<p><b>h)</b> The doctoral theses elaborated in IOSUD-UPT are published by Politehnica Publishing House, in the detailed book format at: <a href="http://www.upt.ro/img/files/2014-2015/doctorat/editare_teza/Instructiuni_pentru_redactarea_tezelor_de_doctorat_Ed_Politehnica.pdf">http://www.upt.ro/img/files/2014-2015/doctorat/editare_teza/Instructiuni_pentru_redactarea_tezelor_de_doctorat_Ed_Politehnica.pdf</a>.</p> <p>The templates for writing the thesis are also public:</p> <ul style="list-style-type: none"> <li>• Initial part model (Romanian, English)</li> <li>• Thesis chapter model</li> <li>• Details on editing formulas</li> </ul> <p>which can be found at: <a href="http://www.upt.ro/Informatii_documentele-doctoranzilor-inmatriculati-incepand-cu-anul-201_286_ro.html">http://www.upt.ro/Informatii_documentele-doctoranzilor-inmatriculati-incepand-cu-anul-201_286_ro.html</a>.</p> <p>In addition, the Polytechnic University of Timișoara ensures, from its own income, the publication of 25 copies of each doctoral thesis, in addition to the two copies that are sent for archiving to the Central Library of UPT and to the National Library of Romania.</p>	<i>Fulfilled</i>
	<b>i)</b> links to the abstracts of the doctoral theses to be defended publicly, as well as the date, time, place where they will be defended, at least 20 days before the defense.	<p><b>i)</b> According to the procedure for public defense of doctoral theses in IOSUD-UPT, on the UPT website, doctoral studies section, the public defense announcements are posted, in Romanian and English (for each doctoral thesis), for example:</p> <ul style="list-style-type: none"> <li>• <a href="http://www.upt.ro/Informatii_anunturi---sustineri-publice-ale-tezelor-de-doctorat-in-iosu_293_ro.html">http://www.upt.ro/Informatii_anunturi---sustineri-publice-ale-tezelor-de-doctorat-in-iosu_293_ro.html</a></li> <li>• <a href="http://www.upt.ro/Informatii_anunturi---sustineri-publice-ale-tezelor-de-doctorat-in-iosu_293_en.html">http://www.upt.ro/Informatii_anunturi---sustineri-publice-ale-tezelor-de-doctorat-in-iosu_293_en.html</a></li> </ul>	<i>Fulfilled</i>

		<p>The theses defended in 2024, with details regarding the date, time, place where they were defended, the summary of the thesis, the public defense committee can be found at:  <a href="http://www.upt.ro/Informatii_teze-de-doctorat-sustinute-in-2024_2543_ro.html">http://www.upt.ro/Informatii_teze-de-doctorat-sustinute-in-2024_2543_ro.html</a></p> <p>The theses defended in 2023, with details regarding the date, time, place where they were defended, the summary of the thesis, the public defense committee can be found at:  <a href="http://www.upt.ro/Informatii_teze-de-doctorat-sustinute-in-2023_2165_ro.html">http://www.upt.ro/Informatii_teze-de-doctorat-sustinute-in-2023_2165_ro.html</a></p> <ul style="list-style-type: none"> <li>• The theses defended in 2022, with details regarding the date, time, place where they were defended, the summary of the thesis, the public defense committee can be found at: <a href="http://www.upt.ro/Informatii_teze-de-doctorat-sustinute-in-2022_1916_ro.html">http://www.upt.ro/Informatii_teze-de-doctorat-sustinute-in-2022_1916_ro.html</a></li> <li>• The theses defended in 2021, with details regarding the date, time, place where they were defended, the summary of the thesis, the public defense committee can be found at: <a href="http://www.upt.ro/Informatii_teze-de-doctorat-sustinute-in-2021_1664_ro.html">http://www.upt.ro/Informatii_teze-de-doctorat-sustinute-in-2021_1664_ro.html</a></li> <li>• The theses defended in 2020, with the details regarding the date, time, place where they were defended, the summary of the thesis, the public defense committee can be found at: <a href="http://www.upt.ro/Informatii_teze-de-doctorat-sustinute-in-2020_1421_ro.html">http://www.upt.ro/Informatii_teze-de-doctorat-sustinute-in-2020_1421_ro.html</a></li> </ul>	
<p><b>C.2.2. IOSUD /</b>  The Doctoral School provides access to the doctoral students to the resources necessary to carry out doctoral studies.</p>	<p><b>C.2.2.1.</b> All doctoral students have free access to a platform with academic databases relevant to the field of doctoral studies analyzed.</p>	<p><b>C.2.2.1.</b> All doctoral students have free access, from any computer with IP belonging to the UPT campus, to the electronic resources and databases of the UPT Central Library.</p> <p><i>The databases held by the library can be accessed at:</i></p> <ul style="list-style-type: none"> <li>• <a href="https://library.upt.ro/baze-de-date/">https://library.upt.ro/baze-de-date/</a></li> </ul> <p>or</p>	<p><i>Fulfilled</i></p>

- Directly from the PRIMO search system module, by selecting Primo Central Index and Subscriber Databases



The databases subscribed to by the library are:

**Baze de date**

Platforma de cercetare ScienceDirect ofera acces la text integral la reviste stiintifice de cercetare in format online, carti academice, carti de carti si enciclopedii online. Peste 26% din informatia aparuta la nivel global in domeniul stiintei este la dispozitie online. Peste 1000 de reviste stiintifice si tehnice sunt publicate pe platforma Elsevier Science Direct. Este indisponibil, cea mai importanta resursa internationala academica a ziarului nostru si cuprinde revistele publicate de grupul editural Elsevier (cuprinde editurile: Elsevier, Churchill Livingstone, Saunders, Mosby, Cell Press, Pergamon, Butterworth-Heinemann, Academic Press, The Lancet, JAI Press, North Holland, Masson).

Platforma SpringerLink ofera acces cu text integral la reviste stiintifice de cercetare in format online, fara alt suport magnetic sau pe hartie. Este una din cele mai utilizate resurse electronice de cercetare stiintifica din lume si de la noi din tara. Intinita in anul 1999, platforma SpringerLink a continut sa evolueze in functie de nevoile cercetatorilor si in prezent contine peste 4000 de titluri de reviste (date de 1.000.000 in 2009), peste 100.000 de carti online, peste 4.000 serii de carti si 307 de lucrari de referinta online, peste 34.000 de articole, continute ale celor mai reviste de la cea mai mare biblioteca stiintifica din lume.

Web of Knowledge este una dintre cele mai importante surse de documentare stiintifica la nivel mondial. Se poate sa este baza de date este de a oferi informatii despre recunoasterea stiintifica a articolelor stiintifice si de identificare a autorilor stiintifici si tehnologici la nivel mondial. Web of Knowledge este autoritatea recunoscuta pentru evaluarea ISI a jurnalelor stiintifice, creat in colaborare cu prestigiosul Institute for Scientific Information din Philadelphia, SUA.

IEEE/ET Electronic Library (IEL) ofera acces la mai mult de o treime din literatura din domeniul ingineriei si a stiintei calculatorilor din intreaga lume, inclusiv la dispozitie materiale de foarte buna calitate de la Institute of Electrical and Electronics Engineers (IEEE) si Institution of Engineering and Technology (IET). Este o baza de date online pentru universitati, corporatii si agentii guvernamentale. Un abonament la IEEE/ET Electronic Library ofera acces la textul integral pentru toate revistele, ziarele, lucrurile si rapoartele de la diverse conferinte editate de IEEE, reviste si lucrari de la diverse conferinte editate de IEEE.

Scopus este o baza de date bibliografica si bibliometrica in format online, cuprinzand reviste stiintifice, lucrari prin intermediul Internetului. Ofera acces la revistele articolelor stiintifice din peste 10000 de reviste stiintifice internationale publicate la peste 5000 de edituri internationale. Utilizarea sa instrumente de evaluare includea index care serveste evaluarea autorilor si institutiilor academice in baza raportului dintre articolele publicate si numarul de citari primite.

Baza de date "Legis Plus" contine peste 35.000 de acte normative (legi, decrete, hotarari, ordonari, ordine, ceram, norme, precizari, amanc, acte republicate) din anul 1918 si pana in prezent. (se actualizeaza odata cu aparitia Monitorului Oficial).

The informational resources on traditional support that are not found in the electronic catalog can be found in the traditional catalogs of the library.

**C.2.2.2.** Each doctoral student has access, upon request, to an electronic system for verifying the degree of similarity with other existing scientific or artistic creations.

**C.2.2.2.** IOSUD-UPT has purchased the iThenticate (<http://www.ithenticate.com/>) software used to analyze the degree of similarity of the content of doctoral theses with other documents.

In the final stages of the doctoral thesis, the Doctoral School, through the person specifically designated for similarity analysis, generates a similarity report with the iThenticate computer program, sent to the doctoral supervisor of the thesis.

Such similarity reports can be generated, at the request of the doctoral student or the doctoral supervisor, in different phases of the elaboration of the doctoral thesis, or of the scientific works associated with the doctoral research program.

*Fulfilled*

		<p>For the doctoral thesis, the doctoral supervisor elaborates a similarity report, to which the report generated by the iThenticate software is constituted as an annex.</p> <p><a href="#">Anexa C.2.2.2.</a> presents examples of the use of the software for PhD students in the field of <b>Chemical Engineering</b>, since we do not have PhD students in the field of Environmental Engineering.</p>	
	<p><b>C.2.2.3.</b> All doctoral students have access to scientific research laboratories or other facilities, depending on the specifics of the field/fields within the doctoral school, according to internal regulations.</p>	<p><b>C.2.2.3.</b> In the doctoral studies contract, concluded between IOSUD-UPT and each enrolled doctoral student, the obligations assumed by IOSUD-UPT regarding the access of doctoral students to the research infrastructure/facilities are explicitly stipulated, as follows:</p> <ul style="list-style-type: none"> <li>• <b>Art.6.B.3</b> - to ensure the access of the doctoral student to the material base of education and research within the doctoral studies (<a href="#">Anexa C.2.2.3.</a> – Doctoral studies contract).</li> <li>• Depending on the specifics of the research laboratory, the doctoral student is trained in strict compliance with the rules of labor protection and fire prevention and extinguishing.</li> </ul>	<i>Fulfilled</i>
<b>C.3. Degree of internationalisation</b>			
<b>Standards</b>	<b>Performance indicators</b>	<b>Findings</b>	<b>Degree of fulfillment of the requirement <i>met/partially met/not met</i></b>
<p><b>C.3.1.</b> There is a strategy, and it is applied, to increase the degree of internationalization of doctoral studies.</p>	<p><b>*C.3.1.1.</b> IOSUD, for the evaluated field of study, has concluded mobility agreements with universities abroad, with research institutes, with companies carrying out activities in the field studied, aimed at the</p>	<p><b>*C.3.1.1.</b></p> <ul style="list-style-type: none"> <li>• In <a href="#">Anexa C.3.1.1-1.</a> the ERASMUS mobility agreements between UPT and universities abroad are presented.</li> </ul>	<i>Fulfilled</i>

	<p>mobility of doctoral students and teaching staff (for example, ERASMUS agreements for the doctoral study cycle). At least 35% of PhD students have completed a traineeship abroad or another form of mobility, such as participation in international scientific conferences. IOSUD develops and implements policies and plans of measures aimed at increasing the number of doctoral students participating in training placements abroad, up to at least 20%, which is the target at the level of the European Higher Education Area.</p>	<ul style="list-style-type: none"> <li>• The ERASMUS mobility agreements between UPT and universities abroad can be found publicly at: <a href="http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale-Acorduri-bilaterale-Erasmus+ 8 ro.html">http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale-Acorduri-bilaterale-Erasmus+ 8 ro.html</a></li> <li>• The UPT framework cooperation agreements with universities in the country and abroad can be found publicly at: <a href="http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale-Acorduri-cadru-de-cooperare-cu-universitati-din-tara-si-strainatate 31 ro.html">http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale-Acorduri-cadru-de-cooperare-cu-universitati-din-tara-si-strainatate 31 ro.html</a></li> </ul> <p>IOSUD-UPT has constant concerns for increasing the degree of internationalization of students, implemented through the Strategic Plan for the Internationalization of the Educational Act (2015-2020, respectively 2021-2028):</p> <p><a href="http://www.upt.ro/img/file/Proceduri/Strategy%20for%20Internationalisation UPT 2021 2028.pdf">http://www.upt.ro/img/file/Proceduri/Strategy%20for%20Internationalisation UPT 2021 2028.pdf</a></p> <p><a href="http://www.upt.ro/img/file/Proceduri/Strategy for internationalisation UPT 2015 2020.pdf">http://www.upt.ro/img/file/Proceduri/Strategy for internationalisation UPT 2015 2020.pdf</a></p>	
	<p><b>C.3.1.2.</b> Within the evaluated field of study, the organization of international co-supervised doctorates is supported, including financially, respectively the invitation of first-rate experts to hold courses / lectures for doctoral students.</p>	<p><b>C.3.1.2.</b></p> <ul style="list-style-type: none"> <li>• At the level of IOSUD UPT, doctoral theses were defended in international co-supervision. One of the doctoral students coordinated in international co-supervision was Forton Andrei Roman, enrolled in the field of Civil Engineering and Installations, doctoral supervisor prof. dr. eng. Ciutina Adrian / Di Benedetto Herve, respectively co-supervisor between the Polytechnic University of Timișoara / Universite de Lyon, whose doctoral thesis was defended on 24.06.2021.</li> <li>• Another international co-supervision was the one for the coordination of the student Alexandru Falk, enrolled in the field of Mechanical Engineering, PhD supervisor prof. dr. eng. Marșavina Liviu / Ion Octavian POP respectively co-tutor between the Polytechnic</li> </ul>	<p><i>Fulfilled</i></p>

		<p>University of Timișoara / University of Limoges, whose doctoral thesis was defended on 16.12.2022.</p> <ul style="list-style-type: none"> <li>• <a href="#">Anexa C.3.1.2-1</a> - presents the list of guests - first-rate experts who have held courses / lectures for doctoral students.</li> <li>• <a href="#">Anexa C.3.1.2-2</a> - presents the list of invited first-rate experts who have held courses / lectures for doctoral students as a result of some mobilities, through the P1 program: Development of the national research and development system Subprogram 1.1 - Human resources "Mobility projects for young researchers from the diaspora".</li> </ul>	
	<p><b>C.3.1.3.</b> The internationalization of activities within doctoral studies is also supported by other concrete measures (e.g. participation in educational fairs to attract international doctoral students; inclusion of international experts in committees for guiding or defending doctoral theses, etc.).</p>	<p><b>C.3.1.3.</b></p> <p>The internationalization of activities will be supported by: short-term mobility abroad of doctoral students, participation of doctoral students in summer schools, conferences and other events abroad; invitation of first-rate experts who have held courses and lectures for doctoral students in UPT (<a href="#">Anexa C.3.1.2-1</a>) and (<a href="#">Anexa C.3.1.2-2</a>); informing the public and stakeholders about the doctoral field by posting on the Study in Romania platforms (<a href="#">Anexa C.3.1.3-1</a>); increasing the degree of international visibility of the doctoral supervisors and implicitly of the Doctoral School through relevant publications in the field (<a href="#">Anexa A.3.2.1</a>), members of the scientific committees of international publications and conferences, members of the boards of international professional associations; invited to conferences or expert groups held abroad, members of committees for the defense of doctoral theses at top universities abroad.</p> <p>In order to internationalize the activities within the doctoral school, IOSUD - UPT has participated in various promotional missions, in educational fairs to attract international doctoral students, has signed collaboration agreements with prestigious universities, details being found at:</p>	<p><i>Fulfilled</i></p>

		<p><a href="http://www.upt.ro/Informatii-utile_eden-2024-research-workshop--phd-schools-masterclass-la-upt-_1180_ro.html">http://www.upt.ro/Informatii-utile eden-2024-research-workshop--phd-schools-masterclass-la-upt-_1180_ro.html</a></p> <p><a href="http://www.upt.ro/Informatii-utile_scoala-de-vara-internationala-la-facultatea-de-constructii-a_1140_ro.html">http://www.upt.ro/Informatii-utile scoala-de-vara-internationala-la-facultatea-de-constructii-a_1140_ro.html</a></p> <p><a href="http://www.upt.ro/Informatii-utile_eudres-_1050_ro.html">http://www.upt.ro/Informatii-utile eudres-_1050_ro.html</a></p> <p><a href="http://www.upt.ro/Informatii-utile_upt-la-conferinta-si-expozitia-anuala-nafsa-2019_385_ro.html">http://www.upt.ro/Informatii-utile_upt-la-conferinta-si-expozitia-anuala-nafsa-2019_385_ro.html</a></p> <p><a href="http://www.upt.ro/Informatii-utile_firmele-italiene-vor-o-relatie-mai-stransa-cu-upt_351_ro.html">http://www.upt.ro/Informatii-utile firmele-italiene-vor-o-relatie-mai-stransa-cu-upt_351_ro.html</a></p> <p><a href="http://www.upt.ro/Informatii-utile_ambasadorul-mexicului-la-upt_324_ro.html">http://www.upt.ro/Informatii-utile ambasadorul-mexicului-la-upt_324_ro.html</a></p> <p><a href="http://www.upt.ro/Informatii-utile_un-nou-acord-semnat-de-upt_344_ro.html">http://www.upt.ro/Informatii-utile_un-nou-acord-semnat-de-upt_344_ro.html</a></p> <p><a href="http://www.upt.ro/Informatii-utile_un-nou-acord-international-semnat-de-upt_276_ro.html">http://www.upt.ro/Informatii-utile_un-nou-acord-international-semnat-de-upt_276_ro.html</a></p> <p><a href="http://www.upt.ro/Informatii-utile_upt-a-semnat-un-acord-de-colaborare-cu-universitatea-din-ovi_229_ro.html">http://www.upt.ro/Informatii-utile_upt-a-semnat-un-acord-de-colaborare-cu-universitatea-din-ovi_229_ro.html</a></p> <p><a href="http://www.upt.ro/Informatii-utile_reprezentantii-upt-la-aniversarea-tu-munchen_227_ro.html">http://www.upt.ro/Informatii-utile_reprezentantii-upt-la-aniversarea-tu-munchen_227_ro.html</a></p> <p><a href="http://www.upt.ro/Informatii-utile_acord-de-colaborare-intre-upt-si-tu-graz_203_ro.html">http://www.upt.ro/Informatii-utile_acord-de-colaborare-intre-upt-si-tu-graz_203_ro.html</a></p> <p><a href="http://www.upt.ro/Informatii-utile_parteneriat-upt---universitatea-khazar-azerbaidjan_121_ro.html">http://www.upt.ro/Informatii-utile_parteneriat-upt---universitatea-khazar-azerbaidjan_121_ro.html</a></p> <p>In <a href="#">Anexa C.3.1.3.</a> details are presented regarding doctoral theses defended in IOSUD – UPT, with foreign experts as referees.</p>	
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*\*The indicators signaled by an asterisk have a special status exclusively with reference to the periodic evaluation process of doctoral schools under the conditions of Law no. 100/2018. In case of non-fulfillment, a period of three years is granted for the correction of those deficiencies*

<sup>1</sup> 3 years for doctoral university study programs with the duration specified in art. 159 para. (3), respectively 4 years for doctoral degree programs with the duration specified in art. 174 paragraph (3) of the National Education Law no. 1/2011, with subsequent amendments and completions, to which are added the extension periods granted according to art. 39 para. (3) of the Code of Doctoral University Studies, approved by Government Decision no. 681/2011, with subsequent amendments and completions.

<sup>2</sup> 3 years for doctoral university study programs with the duration specified in art. 159 para. (3), respectively 4 years for doctoral degree programs with the duration specified in art. 174 paragraph (3) of the National Education Law no. 1/2011, with subsequent amendments and completions.

<sup>3</sup> Or by what the graduate must know, understand and be able to do, in accordance with the provisions of the Methodology for registration and registration of higher education qualifications in the National Register of Higher Education Qualifications (RNCIS), approved by the Order of the Minister of National Education 3475/2017, with subsequent amendments and completions.

Other observations/findings:

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### **Part III**

### **3. STRATEGIES AND PROCEDURES IMPLEMENTED AT THE LEVEL OF THE FIELD OF DOCTORAL STUDIES, AS MEASURES FOR CONTINUOUS IMPROVEMENT OF THE QUALITY OF DOCTORAL STUDY PROGRAMS, OTHER THAN THOSE PROVIDED IN ANNEX 4 TO THE GUIDE**

Due to the IOSUD-UPT option for establishing and operationalizing a single doctoral school to manage all areas of doctoral studies, a unitary approach to the development of doctoral study programs was possible, constituting a measure of continuous improvement of the quality of doctoral study programs, with a beneficial impact on the compliance with quality standards for all doctoral fields accredited in IOSUD-UPT.

In this regard, the assumption of a minimum performance criterion for the public defense of doctoral theses, according to Art. 24 (18) of RIOSUD, of publication or acceptance for publication, under UPT affiliation of the student-doctoral author, of 2 Web of Science indexed papers (in specialized journals or volumes of scientific events abroad) was a first measure to improve the quality of doctoral university studies carried out in IOSUD – UPT. If the minimum standards developed by CNATDCU for awarding the doctoral degree exceed those of UPT, the CNATDCU criteria shall prevail. The regulations can be found in the doctoral study contract, signed by the doctoral student:

*"(18) The public defense of the doctoral thesis is conditioned by the fulfillment of scientific performance criteria reflected by capitalizing on the original research carried out within the doctoral university study program through publication, communication or patenting of the results. The minimum performance criterion of IOSUD-UPT is the publication or acceptance for publication, under UPT affiliation of the student-doctoral author, of 2 papers indexed Web of Science (in specialized journals or volumes of scientific events from abroad). If the minimum standards developed by the CNATDCU for the granting of the doctoral degree exceed those of the UPT, the criteria of the CNATDCU shall prevail."*

The publication of the results of the doctoral research project before the public defense of the doctoral thesis confers not only international visibility (through Web of Science indexing) but also an external, independent validation of their originality and scientific quality, as a measure of continuous improvement of the quality of doctoral study programs.

As a result of this option assumed by IOSUD-UPT since 2011, all doctoral theses elaborated in IOSUD-UPT have been validated by the CNATDCU specialized commissions, with the confirmation of the doctoral title.

In the efforts to improve the academic and professional training of doctoral students and to stimulate research, including through the completion and publication of doctoral theses, by Decision no. 32 / 07.11.2012, the Board of Directors of the Polytechnic University of Timișoara (UPT) launched the project Increasing the quality of advanced scientific research in UPT, in order to improve the visibility and the degree of capitalization of the results of scientific research, establishing support grants for research granted from the university's own revenues. Following the analysis carried out in 2015 on the efficiency of the research support grant program, the Board of Directors of UPT adopted the Decision of the Board of Directors (HCA) no. 28 / 18.05.2015 and decided to continue the financing program. Considering the analysis of the results of the program carried out until 2020 and identifying a series of changes necessary to increase scientific production and its quality, the Board of Directors decided to continue the funding program through HCA no. 14 / 02.02.2021. Subsequently, by HCA 74/1/12.04.2022, HCA 78/08.06.2021 on "Increasing the quality of advanced scientific research in UPT" was updated.

The conditions for carrying out these programs and granting financing are specified at: [http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale\\_Programul-de-finantare-ISI\\_27\\_ro.html](http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Programul-de-finantare-ISI_27_ro.html). All the working procedures related to these programs are described:

- Working procedure regarding obtaining a support grant for participation in indexable Web of Science/Clarivate Analytics (ISI) scientific events of university assistants and doctoral students.
- Working procedure regarding obtaining a support grant for the publication of papers in journals indexed in Web of Science/Clarivate Analytics (ISI) with an impact factor.
- Application for a support grant type 1 - support grant for participation in scientific events indexable in Web of Science/Clarivate Analytics (ISI).
- Application for cancellation of grant type 1 – support grant for participation in scientific events indexable in Web of Science/Clarivate Analytics (ISI).
- Application for a type 2 support grant – for the publication of a paper in ISI journals with an impact factor, a type 3 support grant – for research and a type 4 support grant – additional incentive.

- Application for the return of part of the support grant to the virtual account.
- Application regarding the cancellation of the approval/confirmation of the type 2 support grant – in order to publish a paper in journals indexed in ISI with an impact factor, type 3 support grant – for research and type 4 support grant – additional incentive.
- [https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.upt.ro%2Fimg%2Ffiles%2F2021-2022%2Fcontab%2F2022-Anexa1\\_CERERE\\_DE\\_DEPLASARE\\_in\\_tara\\_2022\\_02\\_22.doc&wdOrigin=BROWSELINK](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.upt.ro%2Fimg%2Ffiles%2F2021-2022%2Fcontab%2F2022-Anexa1_CERERE_DE_DEPLASARE_in_tara_2022_02_22.doc&wdOrigin=BROWSELINK)
- [https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.upt.ro%2Fimg%2Ffiles%2F2021-2022%2Fcontab%2F2022-Anexa\\_2\\_CERERE\\_DE\\_DEPLASARE\\_in\\_strainatate\(2022-02-22\).doc&wdOrigin=BROWSELINK](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.upt.ro%2Fimg%2Ffiles%2F2021-2022%2Fcontab%2F2022-Anexa_2_CERERE_DE_DEPLASARE_in_strainatate(2022-02-22).doc&wdOrigin=BROWSELINK)

Through these HCAs, increasing incentive amounts were granted to doctoral students. In HCA no. 14 / 02.02.2021 it is stipulated that the total cumulative value of the support grants approved for a first author doctoral student is a maximum of 2400 EUR for the entire period in which he/she holds the status of doctoral student. The support grant is up to EUR 500 for publication expenses in journals indexed in Web of Science/Clarivate Analytics (ISI) with impact factor (FI),  $FI > 0.2$  and classified, at the date of application, in areas Q3 or Q4 of the Web of Science/Clarivate Analytics classification of journals by specialized fields. The support grant is up to 1200 EUR for publication expenses in journals indexed in Web of Science/Clarivate Analytics (ISI) with FI and classified, at the date of application, in area Q2 of the Web of Science/Clarivate Analytics classification of journals by specialized fields. Support grant of up to EUR 1800 for publication expenses in journals indexed in Web of Science / Clarivate Analytics (ISI) with FI and classified, at the date of application, in area Q1 of the Web of Science/Clarivate Analytics classification of journals by specialized fields.

In HCA no. 14 / 02.02.2021 the facility is provided, that for the first paper published by a PhD student, as a first author with a UPT single status, in a journal in the Q1 or Q2 category, he/she can receive an additional grant of 1800 EUR for Q1 journals or 1200 EUR for Q2 journals, cumulative with the author's share of the other grants provided in the HCA for the respective paper. The grant is awarded only once to the applicant for one of the categories Q1 or Q2, the option

being expressly mentioned in his request for awards. Once the grant is approved for a Q1 or Q2 category, the applicant's option cannot be changed.

In HCA no. 74/1/12.04.2022 the values of the support grants are updated.

After completing the internship of doctoral studies, doctoral students can benefit from the extension of doctoral studies, with a cumulative value of maximum two years of extension.

In the same context, to improve the academic and professional training of doctoral students and to stimulate research, UPT has launched an internal project to promote its own doctoral research at prestigious international conferences organized in / by UPT, [http://www.upt.ro/img/file/Formulare%20si%20regulamente/ISI/Proiect\\_ConferinteUPT.pdf](http://www.upt.ro/img/file/Formulare%20si%20regulamente/ISI/Proiect_ConferinteUPT.pdf).

This project ran from 2018 to 2019 and facilitated the participation of PhD students in good, but not indexed, conferences or conferences that were indexed late in Web of Science/Clarivate Analytics (ISI), in order to present the results, receive useful feedback from the participants, interact and create contacts with other PhD students and internationally recognized specialists.

Within the POCU project "Training of entrepreneurial skills for doctoral and postdoctoral students in engineering - ANTREPRING", with the previous name "Support for Doctoral and Postdoctoral Programs for the development of Entrepreneurial skills - SUPRANTREP", [http://www.upt.ro/Informatii\\_sprijin-pentru-doctoranzi-si-cercetatori-post-doctorat\\_998\\_ro.html](http://www.upt.ro/Informatii_sprijin-pentru-doctoranzi-si-cercetatori-post-doctorat_998_ro.html), financial support was granted to doctoral students on a project-based basis. These individual projects were carried out between 2016 and 2018 and aimed to increase the number of tertiary university graduates who find a job as a result of access to learning activities at a potential job / research / innovation, with a focus on economic sectors with competitive potential identified according to the National Strategy for Competitiveness (SNC) and areas of smart specialization according to the National Research Strategy, Development and Innovation (SNCDI). The following results were obtained: the increased participation rate of doctoral students in internships within the newly established/developed partnerships to facilitate insertion into the labor market after obtaining doctoral degrees; newly established/developed partnerships between UPT and the private sector and actors in the field of research and innovation.

Another project dedicated to doctoral and postdoctoral students was the POCU 993/6/13/153437 InoHubDoc project carried out in the period 2022-2023. The purpose of the POCU 993/6/13/153437 InoHubDoc project was to attract and retain students - doctoral students

and post-doctoral students in high-quality educational programs, including by ensuring an adequate level of funding and by promoting partnership relations between institutions and the business environment, pedagogical training opportunities by supporting, developing and providing complementary course modules, with an applicative component, training of transversal/entrepreneurial skills in support of research and innovation, especially in the economic sectors with competitive potential identified according to the SNC and in the areas of smart specialization, addressed to students in doctoral study programs and post-doctoral researchers. The project took place over a period of 12 months, involving students - doctoral students and post-doctoral students from the Polytechnic University of Timisoara, the Technical University of Cluj-Napoca and the "Gheorghe Asachi" Technical University of Iasi. The results of the project were materialized as follows: 52 students - doctoral students obtained the scientific title of doctor, 20 researchers completed post-doctoral programs, 36 students - doctoral students / researchers attended studies / training courses at the end of the participant, 36 students - doctoral students / researchers found a job at the end of the participant, 117 people (students - doctoral students / post-doctoral researchers) benefited from support through doctoral / post-doctoral programs.

In its efforts to continuously improve the quality of doctoral programs, UPT acquired in 2020 a volume license for MATLAB - Matlab Campus-Wide License. This is a development environment produced by the MathWorks company, used for the design of algorithms, statistical analysis, numerical calculation, creation of interfaces. The software package contains over 100 additional components including the Simulink graphical environment, which allows modeling, simulation and testing of complex systems. The purchased license provides access to the latest software versions and covers an unlimited number of users and workstations. Thus, MathWorks products can be used by UPT staff and doctoral students in the teaching and research process and can be installed on both UPT and personal computing equipment.

Access to the installation kit is made through the <https://nl.mathworks.com/academia/tah-portal/universitatea-politehnica-timisoara-31539130.html> portal, following the creation of an account associated with the institutional email address. Doctoral students have access to the following useful resources that they will use in the realization of their doctoral theses:

- Matlab documentation – provides a series of video tutorials and usage examples.
- Matlab Online – allows you to use Matlab and Simulink directly from the web client, without requiring installation on the workstation.

- Matlab Grader utility – allows the creation of interactive course problems and automatic code evaluation.
- Discussion forum – is addressed to the Matlab user community.

A specialized program useful in research in the field of Environmental Engineering is AspenOne dedicated to the modeling and simulation of industrial systems, which is acquired every year by the university. This program can be used by PhD students for the design of processes with low environmental impact or those used in environmental remediation.

Another measure aimed at continuous improvement of the quality of doctoral study programs was the adoption of the decision to provide financial support to newly admitted doctoral students, but who did not obtain a place budgeted with a MEN scholarship after the admission colloquium. Starting with the 2018/2019 academic year, UPT initiated the granting of scholarships from UPT's own income, in the amount of 800 lei/month. Starting with the 2021/2022 academic year, the amount of the scholarship from own income increased to 1000 lei. These are awarded, for each field of doctoral studies, in the order of the averages obtained at the admission colloquium, according to the procedure developed by the CSUD.

The situation regarding the support scholarships granted for each academic year is included in the enrollment order. The data are public at the following addresses:

For the year 2024-2025:

[http://upt.ro/img/files/2023-2024/doctorat/Decizie\\_liste%20inmatriculare\\_candidati\\_admisi\\_doctorat\\_iulie\\_2024.pdf](http://upt.ro/img/files/2023-2024/doctorat/Decizie_liste%20inmatriculare_candidati_admisi_doctorat_iulie_2024.pdf)

For the year 2023-2024:

[http://www.upt.ro/img/files/2023-2024/doctorat/Decizie\\_inmatriculare\\_drd\\_iulie\\_2023.pdf](http://www.upt.ro/img/files/2023-2024/doctorat/Decizie_inmatriculare_drd_iulie_2023.pdf)

For the year 2022-2023:

[http://upt.ro/img/files/2022-2023/doctorat/Ordinul\\_17462\\_inmatricularea\\_doctoranzi\\_iulie\\_2022.pdf](http://upt.ro/img/files/2022-2023/doctorat/Ordinul_17462_inmatricularea_doctoranzi_iulie_2022.pdf)

And

[http://upt.ro/img/files/2022-2023/doctorat/Ordinul\\_23074\\_inmatricularea\\_doctoranzi\\_septembrie\\_2022.pdf](http://upt.ro/img/files/2022-2023/doctorat/Ordinul_23074_inmatricularea_doctoranzi_septembrie_2022.pdf)

For the year 2021-2022:

[http://www.upt.ro/img/files/2021-2022/doctorat/Ordinul\\_13016\\_din\\_2021\\_inmatricularea\\_doctoranzilor\\_iulie\\_2021.pdf](http://www.upt.ro/img/files/2021-2022/doctorat/Ordinul_13016_din_2021_inmatricularea_doctoranzilor_iulie_2021.pdf)

And

[http://www.upt.ro/img/files/2021-2022/doctorat/Ordinul\\_18229\\_din\\_2021\\_inmatricularea\\_doctoranzilor\\_septembrie\\_2021.pdf](http://www.upt.ro/img/files/2021-2022/doctorat/Ordinul_18229_din_2021_inmatricularea_doctoranzilor_septembrie_2021.pdf)

And

[http://www.upt.ro/img/files/2021-2022/doctorat/Ordinul\\_21273\\_din\\_2021\\_inmatricularea\\_doctoranzilor\\_octombrie\\_2021.pdf](http://www.upt.ro/img/files/2021-2022/doctorat/Ordinul_21273_din_2021_inmatricularea_doctoranzilor_octombrie_2021.pdf)

For the year 2020-2021:

[http://www.upt.ro/img/files/2020-2021/doctorat/Ordinul\\_10932\\_din\\_2020\\_privind\\_inmatricularea\\_doctoranzilor.pdf](http://www.upt.ro/img/files/2020-2021/doctorat/Ordinul_10932_din_2020_privind_inmatricularea_doctoranzilor.pdf)

#### **4. OTHER ADDITIONAL INFORMATION**

Regarding the critical performance indicators (CPI), in the doctoral field **Environmental Engineering**, the situation is as follows:

##### **A.2.1.1. The indicator is achieved.**

The research infrastructure is publicly presented on the platform: <https://eertis.eu/errf-2300-000z-1377>. The research infrastructure is presented in detail in [Anexa A.2.1.1.](#)

##### **A.3.1.1. The indicator is achieved.**

Within the field of **Environmental Engineering**, there are three doctoral supervisors who are to be affiliated to IOSUD – UPT. All three meet the minimum CNATDCU criteria imposed by OMEN 6129/2016.

$(3/3)*100 = 100\%$

CRITERIA  $\geq 50\%$

The situation is presented in detail in [Anexa A.3.1.1.](#)

##### **A.3.2.1. The indicator is met.**

All qualified doctoral supervisors in the field of **Environmental Engineering** meet this criterion.

$(3/3)*100 = 100\%$

CRITERIA  $\geq 50\%$

The situation is presented in detail in [Anexa A.3.2.1.](#)

##### **B.2.1.5. The indicator may not be pinched.**

##### **B.3.1.1. The indicator cannot be quantified.**

Number of doctoral students who obtained their doctoral degree in the period 2020-2024: not the case

List of relevant papers prepared by PhD students who obtained the PhD title between 2020 and 2024: not applicable.

##### **C.2.1.1. The indicator is achieved.**

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