

SELF - ASSESSMENT REPORT of IOSUD – Politehnica University Timișoara

April 2021

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Part I GENERAL INFORMATION

1.1. General information on the institutional capacity of IOSUD (establishment, structure, evolution, mission, vision, level of quality certification, etc.), existing resources (managerial, administrative, logistical, and financial);

- Politehnica University of Timișoara, with residence address at 300006 Timișoara, Victoriei Square, no. 2, was founded in 1920 by Law Decrees no. 2521 / 10.06.1920 and 4822 / 11.11.1920, under the name “Polytechnic School of Timișoara”. The current name of the university, hereinafter referred to by the acronym UPT, is in accordance with GD no. 493 / 17.07.2013. During its existence, the "Politehnica" University had the following names: Polytechnic School of Timisoara (1920-1948), Polytechnic Institute of Timisoara (1948-1970), Polytechnic Institute "Traian Vuia" of Timisoara (1970-1991), Technical University of Timișoara (1991-1995), "Politehnica" University of Timișoara (1996-2013), Politehnica University Timișoara (2013-present).

UPT, a scientific research institution of higher education, of national interest, which is an important part of the national education system in Romania, contributes through the activities carried out to achieve the global education strategy, developed in accordance with the Constitution and legislation, in the traditions of Romanian university education and makes contributions both to the scientific, professional and civic training of young people and to their integration into economic and social life. UPT is also responsible for the permanent education of undergraduate students, as well as for the progress of science and technology.

The university faculties (10), fields of bachelor's, master's and doctorate, specializations/programs of undergraduate, master's and doctoral studies, teaching languages, level of accreditation, and forms of education at the date of the present evaluation report appear in GD_nr . 299_09-04-2020¹ . In the frame of all doctoral fields, UPT carries out master's degree programs².

UPT's activity is in accordance with the principles of the Magna Charta of European Universities and with the ideals of the Romanian school, pursuing the free, integral, and harmonious development of human individuality and the formation of competent, autonomous, and creative professional personalities. The university is affiliated with numerous university networks at the national and international levels.³⁴

As a state public higher education institution, UPT is a legal entity and has university autonomy in the spirit and letter of the National Education Law and its own University Charter. In its relations with society, the university is identified by name, seal, logo, and flag, established by Senate

¹ http://www.upt.ro/img/files/legislatie/2020/HG_299_9.04.2020_Nomenclator-programe-studii_licenta.pdf

² http://upt.ro/Informatii_studii-universitare-de-master_249_ro.html

³ Pentru detalii v. raportul http://www.upt.ro/img/files/acredinst/2015/upt/02_UPT_Raport_autoevaluare_institutionala_2015_ro.pdf

⁴ Alte afiliieri: http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Afilieri-la-retele-nationale-si-internationale_54_ro.html

decision, and is presented in a public image on the Internet through the website https://www.upt.ro/Universitatea-Politehnica-Timisoara_en.html.

The definition and the mission, objectives, and activities of UPT are based on the principles of university autonomy, academic freedom, public responsibility, quality assurance, equity, managerial and financial efficiency, transparency, respect for the rights and freedoms of students and academics, independence of ideologies, religions and political doctrines, the freedom of national and international mobility of students, teachers and researchers, the consultation of the social partners in decision-making acts, as well as the principle of focusing education on the student.

The mission of the university is integrated into the current and future needs of the individual and human society. According to the 2014 UPT Charter⁵, the UPT mission has the following components:

- a) generating and transferring to society, knowledge through advanced scientific research, development, and innovation and by disseminating the results through publication and/or implementation;
- b) ensuring higher professional training, at the university level by bachelor, master, doctorate programs, as well as at postgraduate level and in the concept of lifelong learning, for the personal development and professional insertion and to meet the competencies indispensable for the development of the society;
- c) involvement in establishing the development directions of the society, at local, regional, national, and international level;
- d) cultivating, promoting, and defending the fundamental values preserved during the evolution of humanity: freedom of thought, expression, and action, justice, truth, equity, honesty, fairness, dignity, honor.

The development vision of the university is reflected in the strategic plans of UPT for institutional development⁶. Thus, the strategic plan for the current legislature⁷ includes 10 axes of development: I - Education, students, II – University marketing and alumni III – Scientific research, innovation and technology transfer, IV - Human resources, involvement in communities, V - Financial resources, VI – Infrastructure, administration and auxiliary services, VII - Internationalization, VIII - Image and communication, IX - Computerization and Digitization, X - Entrepreneurship and the relationship with the regional socio-economic environment. Regional commitment. The development of the doctoral cycle is mentioned in sections I, VII and X, as well as in the performance indicators assumed by UPT.

⁵ http://www.upt.ro/Informatii_carta-universitatii_48_ro.html

⁶ http://www.upt.ro/Informatii_planuri-strategice_59_ro.html

⁷ http://www.upt.ro/img/files/hs/2020/17.12.2020/HS_266_17.12.20_APROBARE-PLAN-STRATEGIC-UPT-2021-2024.pdf

- UPT has a quality management system that covers both educational, scientific, and managerial research processes⁸, obtaining a high degree of confidence in both the institutional evaluation in 2009 and 2015⁹. In 2012 UPT was evaluated with excellent results by EUA¹⁰.
- Doctoral research was carried out within UPT immediately after its establishment. Applied research, specific to the field of engineering has been constantly improved. The first doctoral thesis was defended in 1939. Currently, in the UPT, the doctoral studies activate in the framework of UPT Doctoral School of Engineering Sciences in 13 fields. The activity of the doctoral school is public and is presented on the UPT website at http://www.upt.ro/Informatii_studii-universitare-de-doctorat_266_ro.html. In the period 2008-2015, the doctoral students of UPT, referred to also as Ph.D. students of UPT, obtained important financial support through European Human Resource Development Operational Programme (with the abbreviation POSDRU in Romanian) type projects.
- The UPT resources and their usage are presented and analyzed annually in the Rector's report on the state of the university. The 2020 report is public and can be accessed at http://www.upt.ro/Informatii_rapoarte_335_ro.html. Synthetic information is presented in the section "UPT in figures" located at http://www.upt.ro/Informatii_apt-in-cifre_150_ro.html. A detailed analysis of resources and results can be found in the 2015 institutional self-assessment report¹¹. The human resource of the university engaged in the field of doctoral studies is presented in the university website at http://www.upt.ro/Informatii_studii-universitare-de-doctorat_266_en.html, in the sections "Doctoral studies fields and supervisors" and "List of Ph.D. students enrolled" http://upt.ro/img/files/2020-2021/doctorat/LISTA_doctoranzi_UPT_2020.pdf.
- UPT has a material base suitable for the good development of the research, educational and administrative processes, as well as for the maintenance of the health of students and academic staff. The educational and research spaces correspond in terms of area and volume, infrastructure and technical condition, safety principles, and sanitary laws.

The university manages its own spaces with an area of 66.663 m² for teaching and research activities, 76.676 m² for student accommodation, 13.395 m² for cafeterias, and 75.980 m² for sports facilities. A large part of the spaces for teaching activities has computers, video projectors, and special screens.

The laboratories, not only those for information technologies, are equipped with computers connected to the Internet, and with specific equipment (machine tools, measuring devices, oscilloscopes, video projectors, analysis equipment, spectrometers, electrophoresis equipment, electrical devices, MPLC chromatograph, digital balance, communication network equipment, automation equipment, optical microscopes, etc.).

⁸ http://www.upt.ro/Informatii_asigurarea-calitatii-in-upt_12_ro.html

⁹ http://www.upt.ro/Informatii_certificat-acreditare_255_ro.html

¹⁰ <http://www.upt.ro/img/files/acredinst/UPT-EUA%20Evaluare-Raport-2012.pdf>

¹¹ http://www.upt.ro/img/files/acredinst/2015/upt/02_UPT_Raport_autoevaluare_institutionala_2015_ro.pdf

UPT has been operating a WiFi network since the 2014/2015 academic year, consisting of 200 access points together with the necessary servers, a network that can also provide support for video streaming. The WiFi network covers the buildings of the UPT faculties and student accommodation facilities, both inside and outside, the access is allowed both to the university staff and the students. The access is made based on username and password.

- The UPT Library that was founded in 1921 includes a central entity and a branch at the Faculty of Engineering in Hunedoara. The library publications (approx. 800,000 u.b.) consisting of printed and online books, printed and online periodicals, doctoral theses, standards, patents, etc. are managed in the warehouses with compact bookshelves and in rooms with free access to the bookshelves (approx. 128.782 u.b.). The Library also offers access to various databases including online full-text scientific periodicals and books.

The activity of the library is computerized, the branch library also working online, connected to the central server. The electronic catalog includes all the books purchased by the library since 1981 and the books requested by readers, over 205.436 copies (approx. 103.817 titles) printed and online and might be accessed through 156 points in the library as well as on the Internet.

The new library building, opened in November 2014, was designed as an educational center, as well as a social and cultural point. It contains modern structure facilities, adapted to the specific needs of the users, flexible and easily adaptable spaces.

- The university has its publishing facility, Politehnica Publishing House, accredited by the National Research Council (with the abbreviation CNCS in Romanian). Politehnica Publishing House mainly publishes scientific, technical, and didactic volumes that support the educational process in the university, promoting at the same time the image of the institution. Thus, Politehnica Publishing House has published new titles as follows: 81 in 2014, 73 in 2015, 78 in 2016, 60 in 2017, and 32 in 2018, 42 in 2019 and 36 in 2020. Moreover, the doctoral theses defended at the university are published within 16 series with ISBN and ISSN identifiers: 95 in 2014, 75 in 2015, 29 in 2016, 31 in 2017, 15 in 2018, 26 in 2019 and 22 in 2020. Politehnica Publishing House also publishes the Scientific Bulletin of the Polytechnic University of Timișoara as well as the proceedings of some symposia and conferences organized by the university. Occasionally, under the logo of the Politehnica Publishing House, publications with a cultural, educational, and institutional memory also appear.

The doctoral theses elaborated and defended in IOSUD-UPT, are printed in B5 format, in at least 25 copies at the Politehnica Publishing House, with financing from UPT's resources.

- The Politehnica University of Timișoara has sports facilities (free of charge facilities for students) covering an area of 75.980 m² (Sports Base No. 1: fields (football and athletics track), dressing rooms, warehouses; Sports Base No. 2: football fields, tennis, handball, basketball, volleyball, two swimming pools (one indoor), gym and multifunctional hall; Sports base No. 3: sports field and dressing rooms; Multipurpose Hall (under construction): with 2500 seats, and at the Faculty of Engineering in Hunedoara, a gym hall with an area of 597 m²).

For students and teachers, UPT has in Timișoara 16 student lodges (74.038 m²), for approximately 5500 students, and 3 cafeterias (12.516 m²), while in Hunedoara, a student lodge has 2.636 m² and a cafeteria 879 m². Healthcare is provided through the Student Polyclinic, located within the university campus. Ph.D. students have priority for accommodation in 2 person's bedrooms of UPT student lodge.

- The financial activity of UPT is carried out in accordance with the national legislation, respecting the financing system of higher education institutions corroborated with the principle of financial autonomy, both for the use of budgetary allocations and own incomes.

UPT has its budget of incomes and expenditures, fiscal code, and bank account, organizing its accounting by preparing inventory register, balance sheet, budget execution account, and management report, which shows that all expenses are in accordance with the law in force, with the revenues collected and their destination, as well as with the non-profit character of the institution.

The financial statements are subject to audit in accordance with the regulations in force, the results of the audit together with the annual analysis of the execution of the revenue and expenditure budget being discussed by the university senate and are published on the UPT website.

The current situation of the financial activity is presented on the UPT website in the section “documents of public interest”, paragraph 2.3 Budget and 2.4 Balance sheets, where the financial documents prepared periodically and approved by the authorized institutions can be verified at: http://www.upt.ro/Informatii_informatii-de-interes-public_202_ro.html.

Also, the Rector of UPT presents the university report with a chapter related to the financial activity and budget execution for the reporting year. The report approved by the UPT Senate is public at http://www.upt.ro/Informatii_rapoarte_335_ro.html.

1.2. Doctoral School for Engineering Studies from IOSUD-UPT

Within the Politehnica University of Timișoara Organizing Institution of Doctoral Studies (with the abbreviation IOSUD-UPT in Romanian), in accordance with the Institutional Regulation for the organization and development of doctoral studies at the Politehnica University of Timișoara (RIODSUD-UPT), developed under Law 1/2011 and GD 681/2011, the activity of doctoral studies is carried out within a single doctoral school, the “Doctoral School of Engineering Studies”, established with the approval of RIODSUD-UPT of the UPT Senate in 2011 (RIODSUD-UPT is Annex 10 to the UPT Charter). The headquarters of the Doctoral School of Engineering Studies is inside the Rectorate UPT building, Victoriei Square, no. 2, Timișoara, floor 1, rooms 103 A, B and C.

The IOSUD-UPT decision of establishing a single doctoral school proved to be suitable for the development of doctoral university study programs and being in accordance with the mission of the Politehnica University Timișoara. Thus, a unified approach to the development of doctoral study programs became possible, with a beneficial impact on the quality standards for all doctoral fields accredited in IOSUD-UPT. For example, there is a requirement in IOSUD-UPT of a minimum performance criterion for the public defense of doctoral theses, according to Art. 83 of RIODSUD-UPT, the publication (or proof of acceptance for publication) of at least 2 scientific papers indexed Web of Science with an explicit affiliation of the Politehnica University of Timișoara. This requirement is also included in the doctoral studies contract starting with 2011, and from 2018 it is completed as follows: “The public defense of the doctoral thesis is conditioned by the fulfillment of the minimum national standards for granting the doctoral degree, corresponding to the doctoral field (according to the Order of the Minister of National Education no. 5110/2018), but not less than the minimum performance criterion of IOSUD UPT (according to Art. 83 of the Institutional Regulation for organizing and conducting doctoral studies in UPT, No. 18874 / 16.12.2011). It is assumed that the minimum performance criterion of IOSUD UPT is the publication or acceptance for publication, under UPT affiliation of 2 (two) papers in specialized journals or proceedings of scientific events indexed Web of Science, of which at least one the work has the doctoral student as the first author.” 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 specialized committees of the National Council for the Approval of Academic Title, Diplomas and Certificates (with the abbreviation CNATDCU in Romanian), with the confirmation of the doctoral title.

In IOSUD-UPT, the Council of Doctoral Studies (with the abbreviation CSUD in Romanian) is managed by a director, appointed through the public competition organized by UPT, in accordance with the Institutional Regulation for organizing the elections for the organizational structures and management positions of doctoral studies at the level of IOSUD-UPT, no. 6937 of 22.05.2012, approved by the UPT Senate Decision no. 13 from 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. 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. 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 competition organized in 2020, according to a decision no. 1840/112 / C of 20.10.2020 of the Rector of UPT, the Director of CSUD was appointed Prof. Radu-Emil PRECUP for a term of 4 years.

Following the elections for CSUD members, organized in June 2012, in accordance with the Institutional Regulation related to the elections for the Organizational Structures and Management

Functions of the Doctoral Studies at IOSUD-UPT Level (approved by Senate Decision 13 / 10.05.2012), http://www.upt.ro/Informatii_alegeri-consiliu-csud_299_ro.html, the structure of the CSUD for 2012-2016 term was as follows:

- o Prof. Liviu MARȘAVINA
- o Prof. Mircea ȘTEFĂNESCU
- o Prof. Ștefan-Gheorghe PREITL
- o Prof. Ion BOLDEA
- o PhD student Attila SIMO

The Director of the Doctoral School, Prof. Gheorghe-Daniel ANDREESCU was appointed by the Rector of UPT, at the proposal of CSUD, by Decision no. 668/112 / C of 10.07.2012, for a term of 5 years, 2012-2017. The Interim Council of the Doctoral School (CSD) was formed at the proposal of CSUD, and it consisted of

- o Prof. Daniel Mihai GRECEA
- o Prof. Nicolae FAUR
- o Prof. Dorin LELEA (included after obtaining the habilitation certificate)

The technical secretariat of CSUD / CȘD was provided in the period 2012-2016 by Dr. Liliana MOȘTEORU, while the transmission of doctoral files to CNATDCU was coordinated by Mrs. Simona DAMIAN.

In January 2017, the elections were organized for CSUD members and CSD members, in accordance with the Institutional Regulation for Organizing the Elections for the Organizational Structures and Management Functions of Doctoral Studies at IOSUD-UPT Level (approved by Senate Decision 207 / 26.11.2015), with the following results for the structure of CSUD and CSD, http://www.upt.ro/img/files/alegeri_2016/mcsud_mcsd/Raport_comisie_electorala_CSUD_CSD.pdf:

CSUD:

- o Prof. Aldo DE SABATA
- o Prof. Lăcrămioara STOICU TIVADAR
- o Prof. Ion BOLDEA
- o Prof. Francisc PETER
- o Prof. Anca DRĂGHICI
- o Prof. Marius MARCU
- o PhD student Magdalena BANDA

CSD:

- o Prof. Dorin LELEA
- o Prof. Florea DINU
- o PhD student Cezara-Liliana RAȚ

After completing the 5-year term (2012-2017) as Director of the Doctoral School for Prof. Daniel ANDREESCU, at the proposal of CSUD, the Rector of UPT by decision no. 1494/112 / C of

19.10.2017, appointed Prof. Dorin LELEA as Director of the Doctoral School for a term of 5 years, 2017 - 2022. Prof. Daniel ANDREESCU remained as a member of the CSD.

Considering GD no. 3/2021 regarding the extension of the alert status on the Romanian territory starting with January 13, 2021, the Institutional Regulation for organizing and conducting elections for the organizational structures and management functions of doctoral university studies at the level of the IOSUD-UPT, the Council of Administration of UPT approved the extension of the term for the members of the Council for Doctoral University Studies and of the members of the Doctoral School Council until 17.07.2021.

Currently, the technical secretariat of the Doctoral School of Engineering Studies consists of 3 members: Eng. Monica JURJIU (admission, study contracts, current problems of doctoral students and doctoral supervisors, referred to also as Ph.D. supervisors, monitoring the doctoral students' files), Eng. Steliana CUCU (defense of doctoral theses and transmission of doctoral files to CNATDCU in the RMU / REI system of MEC, development of advanced university training program) and Dr. Nicoleta NEMEȘ (activities regarding the reporting of information to MEC, INS ANS, admission).

1.3 The Fields of doctoral studies coordinated by the Doctoral School of Engineering Studies within IOSUD-UPT

The main objective of the Doctoral School of Engineering Studies in IOSUD-UPT and of the doctoral fields coordinated by it, is the training of human resources, within the third cycle of university studies, for the qualification of independent scientific researcher certified by Ph.D. title, defending the doctoral thesis and following the doctoral program composed of (a) the training program based on advanced university studies (1 year) and (b) the individual doctoral scientific research program (at least 2 years).

The mission of the Doctoral School of Engineering Studies in IOSUD-UPT is to coordinate the doctoral studies in UPT using the same academic criteria and performance standards applied to all accredited doctoral fields in IOSUD-UPT. The Doctoral School offers an adequate organizational framework for the development of training programs based on advanced university studies, of individual programs of doctoral scientific research as well, and finalization and public defenses of doctoral theses. Also, the Doctoral School provides the organizational framework for the public defenses of the habilitation theses, and the sustainable development of the Ph.D. supervisors affiliated to IOSUD-UPT. The Doctoral School provides, to all Ph.D. students in IOSUD-UPT, transversal courses within the training program based on advanced university studies, which offers the necessary knowledge to Ph.D. students and promotes the appropriate skills and attitudes for scientific research, stimulating the academic standards of performance, originality, respecting the research ethics and deontology.

The Doctoral School of Engineering Studies from IOSUD-UPT manages 13 fields of doctoral university studies, according to GD 778/2015, GD 376/2016, GD 140/2017, GD 158/2018, GD 326/2019 and GD 299/2020. These doctoral fields are presented in the table below, together with the CNATDCU specialized committees to which they are assigned.

D#	The field of doctoral university studies in IOSUD-UPT	CNATDCU committee
D01	Chemistry	4. Chemistry
D02	Civil Engineering and Installations	6. Civil Engineering and Construction Management
D03	Materials Engineering	7. Materials Engineering and Science
D04	Chemical Engineering	8. Chemical Engineering
D05	Electrical Engineering	9. Electrical Engineering
D06	Energy Engineering	10. Energy Engineering
D07	Electronic Engineering, Telecommunications and Information Technologies	11. Electronic Engineering and Telecommunications
D08	Computers and Information Technology	15. Computers, Information Technology and Systems Engineering
D09	Systems Engineering	
D10	Industrial Engineering	16. Industrial Engineering and Management
D11	Engineering and Management	
D12	Mechanical Engineering	17. Mechanical Engineering, Mechatronics, Robotics and Military Engineering
D13	Architecture	33. Architecture and Urban Planning

The Doctoral School of Engineering Studies has a team of Ph.D. supervisors consisting of:

- 148 total IOSUD-UPT affiliated Ph.D. supervisors at the date of this report, of which:
 - o 78 full-time Ph.D. supervisors (professors with an employment contract for an indefinite period in IOSUD-UPT), 53 associate Ph.D. supervisors (with a fixed-term employment contract).

A small part of the associated Ph.D. supervisors does not have a contract with IOSUD-UPT at the date of this report because they do not currently coordinate Ph.D. students, but are professionally active.

- o 61 full-time Ph.D. supervisors who have obtained the habilitation certificate.

The table below shows the distribution of Ph.D. supervisors, which are affiliated to IOSUD-UPT at the date of this report, and coordinate doctoral studies in IOSUD - UPT.

D#	The field of the doctoral study in IOSUD-UPT	The doctoral coordinators affiliated to Doctoral school for engineering studies from IOSUD-UPT					
		Total	Females	Full time in UPT	Females	Habilitation certificate	Females
D02	Civil Engineering and Installations	26	1	13	0	12	1
D03	Materials Engineering	9	1	5	1	5	1
D04	Chemical engineering	14	7	6	4	6	4
D05	Electrical engineering	8	1	5	1	4	1
D06	Energy engineering	6	0	3	0	3	0
D07	Electronic Engineering, Telecommunications and Information Technologies	15	4	12	3	7	3
D08	Computers and Information Technology	19	3	10	2	7	2
D09	Systems engineering	8	0	6	0	0	0
D10	Industrial engineering	5	0	2	0	1	0
D11	Engineering and Management	7	3	4	2	2	0
D12	Mechanical engineering	20	5	10	4	9	3

The evolution of the number of doctoral students and the number of doctors in the last 5 years is presented in the tables below.

The evolution of the admitted doctoral students in IOSUD-UPT in the last 5 years

The field of the doctoral studies	Admitted doctoral students academic year									
	2015/ 2016	Females	2016/ 2017	Females	2017/ 2018	Females	2018/ 2019	Females	2019/ 2020	Females
Civil Engineering and Installations	23	7	16	1	19	6	24	5	24	8
Materials Engineering	5	0	6	0	6	2	11	0	7	1
Chemical engineering	4	4	9	1	3	2	7	5	7	5
Electrical engineering	4	0	5	1	4	0	1	1	4	1
IEnergy engineering	8	2	6	3	4	0	4	0	7	1
Electronic Engineering, Telecommunications and Information Technologies	9	1	6	1	8	4	4	0	10	6
Computers and Information Technology	9	3	7	2	12	6	13	3	9	4
Systems engineering	6	1	4	1	6	3	7	3	6	1
Industrial engineering	8	1	8	4	6	4	8	4	8	3
Engineering and Management	12	4	13	3	7	5	8	4	10	7
Mechanical engineering	12	5	14	2	21	4	26	3	20	8

The evolution of the doctors in the last 5 years

The field of the doctoral studies	Doctoral thesis confirmed									
	2016	Females	2017	Females	2018	Females	2019	Females	2020	Females
Civil Engineering and Installations	4	2	5	0	6	3	2	1	4	2
Materials Engineering	0	0	4	2	5	1	6	2	0	0
Chemical engineering	1	1	2	2	0	0	2	2	2	1
Electrical engineering	2	0	1	1	0	0	0	0	1	0
IEnergy engineering	0	0	0	0	1	0	1	0	0	0
Electronic Engineering, Telecommunications and Information Technologies	2	0	0	0	0	0	4	0	1	0
Computers and Information Technology	5	1	4	2	3	1	2	1	3	1
Systems engineering	2	1	1	1	1	0	1	0	3	0
Industrial engineering	4	1	2	0	1	0	1	0	1	0
Engineering and Management	4	0	2	1	3	3	3	2	3	1
Mechanical engineering	4	1	6	2	5	2	1	0	1	0

The research infrastructure of UPT is available to doctoral students, according to the institutional commitment assumed by the doctoral studies contract (Art 6B). The IOSUD-UPT policy embraces the idea of including the doctoral students in research groups, where the doctoral supervisor and/or the members of the coordinating commission are the members. It is supposed that in this case, they will acquire a high level of knowledge, techniques and experimental methods, numerical simulation techniques, and fast familiarization with the research infrastructure to be used in the framework of the doctoral research program.

The following research centers and institutes are established and accredited internally in the Politehnica University Timișoara, http://www.upt.ro/Upt-Timisoara_centre-si-institute-de-cercetare-_153_ro.html:

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

The research infrastructure in IOSUD-UPT is described in the platform "Engage in the Romanian Research Infrastructures - ERRIS", at the link <https://eeris.eu/ERIO-2000-000R-0036>. For each

research center listed above, the major research equipment and research services available are presented.

The development of UPT's research infrastructure is achieved through research and development contracts carried out in the university, obtained through national and international competitions, but also UPT's internal research grants, organized in the last years and financed from own revenues of UPT and intended for young researchers.

Among the most important research infrastructures in UPT we can emphasize *the Research Institute for Renewable Energies - ICER*. It was funded by the POSCCE operational program, priority axis 2 “Competitiveness through Research, Technological Development and Innovation”, in a period 2009–2014. The total value of the project was **66 882 357 lei**. 18 new research laboratories were created and 5 were modernized, 120 equipments were purchased, 12 of them with a value of over 100,000 EUR. Many of the existing high-performance equipment at ICER are unique within the Timisoara University Center. These are used for research grants in interdisciplinary fields proceeding in UPT: Complex projects, PED, Bridge, H2020, cross-border projects, etc.

Another research center of UPT with a remarkable infrastructure is *the Research Center for Materials Mechanics and Structural Safety (CEMSIG)*, established in 1999. The research areas emphasis on cold formed metal structures and the performance of metal and composite structures under seismic actions, fire and other natural and human hazards, as well as on high-performance materials for metal structures located in seismic regions. Through a POSCCE-contract *ACTEX*, CEMSIG benefited from research infrastructure worth **21 000 000 lei**.

The main achievements in the activity of scientific research and technological development in UPT are summarized annually in the "Annual Research Report - Politehnica University Timisoara", publicly available since 2012 at the link http://www.upt.ro/Informatii_rapoarte-de_recherche_170_en.html.

1.4. The internal quality assurance system at the level of the Doctoral school of engineering studies from IOSUD-UPT

- **Objectives, general structure and consistency of the internal quality assurance system:**

At the level of the UPT Doctoral School, the main objective of the quality system for doctoral study programs is the development of doctoral studies that ensure a high success rate in obtaining the doctoral degree. Generally speaking, the doctoral diploma attesting the capability of the scientific researchers to undertake independent 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_en.html) and is described in the Quality Manual (<http://www.upt.ro/img/files/2017->

[2018/calitate/180730_upt_Manualul_Calitatii.pdf](#)), which considers the quality assurance as part of the coherent quality management system.

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

Doctoral studies are an essential part of the educational process in UPT. Taking this into account, implementation of the activities associated with doctoral studies is achieved by: "The institutional regulation for organizing and conducting doctoral studies at the" Politehnica "University Timisoara - Annex 10 to the UPT Charter (http://www.upt.ro/Information_regulations-regarding-the-doctoral-cycle_271_en.html), general documents of the quality system (Strategic Plans, Quality Manual) and documents specific to quality assurance (procedures and working instructions). All the specific stages of the doctoral studies are carefully documented so that they can be monitored and, if necessary, corrected in time. The UPT website regarding doctoral studies (http://www.upt.ro/Informatii_studii-universitare-de-doctorat_266_en.html) contains clear and useful information for the doctoral students, indispensable for their integration in the university community, including information regarding the documents that must be considered at various stages of the doctoral studies (http://www.upt.ro/Informatii_documentele-doctoranzilor-inmatriculati-incepand-cu-anul-201_286_en.html).

The quality assurance policies are stated in the Rector's declaration (http://www.upt.ro/img/files/2014-2015/calitate/Declar_Rector_2014.pdf) and the accompanying documents (http://www.upt.ro/Informatii_asigurarea-qualities-in-upt_12_en.html). They are detailed in the strategic plan of UPT (http://www.upt.ro/Informatii_planuri-strategice_59_ro.html) and in terms of a separate chapter (4.1.3. Doctoral studies) in the operational plans (http://www.upt.ro/img/files/po/2018/Planul_operational%20al_UPT_2018.pdf).

In the process of completing the mission and defining the UPT strategy, the UPT Board of Directors is advised by a UPT Steering Committee composed of 17 people¹², which is an advisory, autonomous and independent body of the UPT.

- **The staff, Ph.D. students and external stakeholders involvement in the quality assurance process:**

UPT regulations and procedures, for example, the procedure regarding the defense of the doctoral thesis (http://www.upt.ro/Informatii_studii-universitare-de-doctorat_266_ro.html) and information regarding the participation in international scientific events (http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Programul-de-finantare-ISI_27_ro.html) and, in general, the links in the section "Forms and Regulations" in the webpage of the Department of International Relations of UPT (http://www.upt.ro/international/Departamentu_Mobilitati_Si_Cooperari_Internationale_ro.html) contain clear evidence that certifies that the activity of the staff that interacts with the UPT Doctoral

¹² http://www.upt.ro/Informatii_comitet-director_254_ro.html

School is part of a quality assurance system. Ph.D. students have their representatives in the UPT Ethics Commission. The Steering Committee, which represents the interest of employers for training highly qualified human resources, including doctoral students, contributes to the identification of research topics to be engaged through doctoral research.

In UPT, the training of human resources for research through doctoral studies has been constantly considered in correlation with the research requirements of different companies and institutions. Solving their requests result in qualitative doctoral research, implicitly in a quality assurance system. So the Doctoral School undertook the measures for the association of the companies like Continental S.A., RAAL-Bistrița, and ICEMENERG in IOSUD-UPT.

- **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 Quality Assessment and Assurance Commission (CEAC – UPT¹³) and the Department for Quality Assurance (DGAC¹⁴). The interaction between the Board of Directors of UPT and DGAC, a department with an executive role that ensures the functioning of the quality management system in UPT, is permanent and involves the quality system in all basic processes and support in UPT. With this in mind, DGAC cooperates directly with all university entities and departments including the UPT Rectorate, and Doctoral School. The Board of directors uses the monitoring reports of the CEAC and the DGAC, initiates new procedures and instructions with the DGAC, operates based on the analysis reports submitted by the DGAC and the self-assessment reports of the programs and areas of study.

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

In the UPT website, there is a separate section on quality assurance (http://www.upt.ro/Informatii_asigurarea-calitatii-in-upt_12_en.html). It contains information on the documents of the quality system, the structure, and references regarding the national and international standards in the field of quality assurance in university education. DGAC has the task of verifying and posting in the UPT website the information related to almost all the sections that appear in the UPT webpage (<http://www.upt.ro/>). Among the topics of interest for internal and external beneficiaries are those related to the organization of the teaching procedure (see page "study programs") and the educational and research offer of UPT (see page "research").

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

Within the UPT the various activities are organized mainly by regulations. They cover the main processes in the university. Operational procedures and work instructions control essential or critical aspects of the processes. DGAC and the Doctoral School collaborate in the development of procedures directly related to the basic activities of doctoral students and provide support for

¹³ http://www.upt.ro/administrare/dgac1/file/2012-2013/hs/2013/HS_83_12-12-2013.pdf

¹⁴ http://www.upt.ro/img/files/calitate/Regulament_DGAC.pdf

various activities of doctoral students (information through the UPT website, administrative activities, and activities related to services offered to students). The efficiency of the quality system documents is revealed by the results obtained by UPT, in particular by the UPT Doctoral School.

- **The information produced by the internal quality assurance system managed as a tool for quality management and improvement of education and other activities:**

Annually, CEAC organized audits on topics related to the conditions that UPT makes available to students (http://www.upt.ro/Informatii_asigurarea-calitatii-in-upt_12_en.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 students is performed online. Procedures for internal self-assessment have been developed to be used 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 interacts with CEAC-UPT, and on the other hand, monitors the activity of DGAC by subordinating DGAC to a Vice-rector. The monitoring activity of the quality assurance system is carried out by analyzing how the working procedures and instructions are applied. Every year, CEAC-UPT presents a report on quality assurance. The report is discussed by the Senate-UPT within the annual report of the Rector of UPT regarding the state of the university and becomes public at the following link: http://www.upt.ro/Informatii_asigurarea-calitatii-in-upt_12_ro.html. The Rector of UPT constantly requests the DGAC to develop procedures and work instructions for the emerged activities or those that have to be strengthened.

Part II IOSUD-UPT Self-Assessment report, regarding the fulfillment of standards, indicators and criteria according to OME 3651/2021

A. INSTITUTIONAL CAPACITY			
A.1. Institutional, administrative, managerial structures and financial resources			
Standards	Performance	indicators Documentation of performance indicators <i>fulfilled / partially fulfilled / not fulfilled</i>	Self-assessment of the degree of fulfillment of the requirement
<p>A.1.1. The organizing institution of the doctoral studies (IOSUD) has implemented the efficient mechanisms provided by the specific legislation regarding the doctoral studies.</p>	<p>A.1.1.1. Existence of specific regulations and their application at the level of IOSUD, respectively of the doctoral school / schools:</p>	<p>Within IOSUD-UPT, starting with 2011, there were established and operating:</p> <ul style="list-style-type: none"> • Council for Doctoral University Studies (CSUD) and • the Doctoral School of Engineering Studies (CSD). The Doctoral School of Engineering Studies within IOSUD-UPT manages the doctoral study programs for 13 accredited doctoral fields. <p>Details on the organizational structures and their operation are included in the IOSUD-UPT self-assessment report June 2016, available at http://www.upt.ro/img/files/2015-2016/doctorat/raport/IOSUD-UPT-2011-2016_rev10_1.pdf.</p> <p>Within IOSUD-UPT exist and apply the following regulations and procedures specific to doctoral studies:</p>	<p><i>fulfilled</i></p>
	<p>(a) internal regulations of the administrative structures (institutional regulations for organizing and operating doctoral study programs, regulations of the doctoral schools);</p>	<p>(a) Institutional Regulation for the Organization of Doctoral Studies at the Politehnica University Timișoara, Nr. 18.874 / 16.12.2011 (Annex 10 to the UPT Charter): Annex A.1.1.1.a.</p> <p>publicly available at:</p> <p>http://upt.ro/img/files/carta/anexe/Anexa_10_CartaUPT_Regulament_doctorat.pdf</p>	<p><i>fulfilled</i></p>

		<p>Considering that in the frame of IOSUD-UPT there is only one doctoral school, the Doctoral School of Engineering Studies that coordinates all doctoral fields, there is a single document that includes regulations for organizing the doctoral studies.</p>	
	<p>(b) The methodology for organizing elections at the level of CSUD, respectively of the doctoral school / schools, including the election by the students of the representatives in CSUD / CSD, and their evidence;</p>	<p>(b) The Institutional Regulation for Organizing the Elections for the Organizational Structures and Management Functions of the Doctoral Studies at IOSUD-UPT Level, approved by HS 13 / 10.05.2012, for the legislature 2012-2016: Annex A.1.1.1.b-1.</p> <p>publicly available at:</p> <p>http://www.upt.ro/administrare/dgac1/file/2011-2012/regulamente/IOSUD-UPT_CSUD2012.pdf</p> <ul style="list-style-type: none"> The elections at the level of CSUD / CSD in the legislature 2012-2016 can be found in Annex A.1.1.1.b-2. <p>publicly available at:</p> <p>http://www.upt.ro/Informatii_alegeri-consiliu-csud_299_en.html</p> <ul style="list-style-type: none"> The decision on the appointment of CSUD members in 2012-2016 can be found in Annex A.1.1.1.b-3. <p>publicly available at:</p> <p>http://www.upt.ro/administrare/dgac1/file/2011-2012/doctorat/alegeri_csud/Numire_membri_CSUD_22_06_2012.pdf</p> <ul style="list-style-type: none"> The elections for the CSUD director for the 2012-2016 legislature can be found in Annex A.1.1.1.b-4. <p>publicly available at:</p>	<p><i>fulfilled</i></p>

		<p>http://www.upt.ro/Informatii_concurs-public---director-al-csud_298_en.html</p> <ul style="list-style-type: none"> • The decision to appoint the director of CSUD in 2012-2016 can be found in Annex A.1.1.1.b-5. • The decision to appoint the director of CSD in 2012-2017 can be found in Annex A.1.1.1.b-6. <p>publicly available at:</p> <p>http://www.upt.ro/img/files/2017-2018/doctorat/Decizie_numire_DSD_Andreescu_Gh-Daniel.pdf</p> <p>a. The regulation for organizing the processes for establishing the managing structures and for electing / designating competition regarding the management positions at the Politehnica University Timisoara for the 2016-2020 legislature is attached Anexa A.1.1.1.b-7.</p> <p>publicly available at:</p> <p>http://www.upt.ro/img/files/hs/HS_207_26.11.2015_Regulament_alegeri.pdf</p> <ul style="list-style-type: none"> • Organizing the elections for CSUD / CSD members for the 2016-2020 legislature can be found in Annex A.1.1.1.b-8. <p>publicly available at:</p> <p>http://www.upt.ro/Informatii_alegeria-membrilor-csud-si-csd-pentru-mandatul-2016-2020_840_en.html</p> <ul style="list-style-type: none"> • The report of the electoral commission on the appointment of CSUD members in 2016-2020 can be found in Annex A.1.1.1.b-9. <p>publicly available at:</p>	
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		<p>http://www.upt.ro/img/files/alegeri_2016/mcsud_mcsd/Raport_comisi_e_electorala_CSUD_CSD.pdf</p> <ul style="list-style-type: none"> The decision to appoint the director of CSUD in 2016-2020 can be found in Annex A.1.1.1.b-10. <p>publicly available at:</p> <p>http://www.upt.ro/img/files/alegeri_2016/csud/Decizie_numire_director_CSUD_2016.pdf</p> <ul style="list-style-type: none"> The decision to appoint the director of CSD in 2017-2022 can be found in Annex A.1.1.1.b-11. <p>publicly available at:</p> <p>http://www.upt.ro/img/files/2017-2018/doctorat/Decizie_numire_DSD_Dorin_Lelea.pdf</p> <p>b. The regulation for organizing the processes for establishing the managing structures and for electing / designating competition regarding the management positions at the Politehnica University Timisoara for the 2020-2024 legislature is attached in Annex A.1.1.1.b-12.</p> <p>publicly available at:</p> <p>http://upt.ro/img/files/carta/anexe/Anexa23_CartaUPT_Regulament_alegeri-2020.pdf</p> <ul style="list-style-type: none"> The proof of the competition for CSUD director in the 2020-2024 legislature is presented in Annex A.1.1.1.b-13. 	
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		<p>publicly available at:</p> <p>http://www.upt.ro/Informatii_concurs-pentru-ocuparea-functiei-de-director-al-csud-pentru-1533_en.html</p> <ul style="list-style-type: none">• The decision to appoint director of CSUD in 2020 (Annex A.1.1.1.b-14.). <p>publicly available at:</p> <p>http://www.upt.ro/img/files/csud/Decizie_numire_director_CSUD_2020.pdf</p> <ul style="list-style-type: none">• Election of the student representative in the CSD (Annex A.1.1.1.b-15.) <p>publicly available at:</p> <p>http://www.upt.ro/img/files/alegeri_2016/mcsud_mcsd/PV_CSD_drd.pdf</p> <ul style="list-style-type: none">• Election of the student representative in the CSUD (Annex A.1.1.1.b-16.) <p>publicly available at:</p> <p>http://www.upt.ro/img/files/alegeri_2016/mcsud_mcsd/PV_CSUD_drd.pdf</p> <ul style="list-style-type: none">• By HS no. 38 / 21.01.2021, the mandate of CSUD / CSD members was extended until 17.07.2021 (Annex A.1.1.1.b-17.) <p>publicly available at:</p> <p>http://www.upt.ro/img/files/hs/2021/21.01.2021/HS_38_21.01.2021_Prelungire-mandat-membri-CSUD-and-CSD.pdf</p>	
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	<p>(c) Methodologies for organizing the doctoral studies (admission of doctoral students, completion of doctoral studies);</p>	<p>c) Within IOSUD-UPT are used:</p> <ul style="list-style-type: none"> • The institutional procedure regarding the organization of the admission to doctoral studies in UPT session 2019, approved by HCA-UPT no. 54 / 11.06.2019 is presented in Annex A 1.1.1.c-1. <p>publicly available at:</p> <p>http://www.upt.ro/img/files/2018-2019/admitere/doctorat/IOSUD-UPT-admitere-2019_procedura.pdf</p> <ul style="list-style-type: none"> • The Institutional Procedure for organizing the admission to Doctoral Studies at the Politehnica University Timișoara, 2018 session, approved by HCA no. 18 / 24.04.2018 (in Annex A.1.1.1.c-2, the version used in September 2018 is presented), <p>publicly available at:</p> <p>http://www.upt.ro/img/files/2017-2018/admitere_/doctorat/IOSUD-UPT-admitere-2018_PROCEDURA_ANEXE.pdf</p> <ul style="list-style-type: none"> • The Institutional Procedure for organizing the admission to Doctoral Studies at the Politehnica University Timișoara, the 2017 session approved by HCA no. 31 / 16.05.2017- presented in Annex A.1.1.1.c-3. <p>publicly available at:</p> <p>http://www.upt.ro/img/files/2016-2017/admitere/doctorat/IOSUD-UPT-admitere-2017_PROCEDURA_ANEXE.pdf</p> <ul style="list-style-type: none"> • The Institutional Procedure for organizing the admission to Doctoral Studies at the Politehnica University Timișoara - September 2016 approved by HCA no. 37 / 30.06.2015. In Annex A.1.1.1.c-4, the version used in September 2016 is presented, <p>publicly available at:</p>	<p><i>fulfilled</i></p>
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		<p>http://www.upt.ro/img/files/2015-2016/admitere/doctorat/Procuctura_admitere_doctorat_2015-2016.pdf</p> <ul style="list-style-type: none"> The Institutional Procedure for organizing the admission to Doctoral Studies at the Politehnica University Timișoara - September 2015 approved by HCA no. 37 / 30.06.2015. In Annex A.1.1.1.c-5, the version used in September 2015 is presented, publicly available at: http://www.upt.ro/img/files/2014-2015/admitere/doctorat/Procedura_admitere_doctorat_2015.pdf The procedure for public defense of the doctoral thesis and set up the doctoral file of the Ph.D. student in IOSUD-UPT, 2016 (Annex A.1.1.1.c-6), publicly available at: http://www.upt.ro/img/files/2015-2016/doctorat/Procuctura_sustinere_teza_incepand_cu_04-2016.pdf The procedure for the completion of doctoral studies and the public defense of the doctoral thesis in UPT, adopted by HCA 5 / 15.01.2019 (Annex A.1.1.1.c-7), publicly available at: http://upt.ro/img/files/2019-2020/doctorat/HCA_5_din_2019_Instructiune_de_lucru_sustinere_teze_doctorat.pdf IOSUD-UPT has adopted, acc. Art 83 of RIODSUD, its own minimum performance criteria for the public defense of doctoral theses (publishing minimum 2 papers indexed Web of Science), a criterion currently correlated with the minimum standards of CNATDCU 	
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		<p>(National Council for Attestation of University Degrees, Diplomas and Certificates) for granting the title of doctor acc. OM 5110/2018.</p> <ul style="list-style-type: none"> In the current epidemiological context, for the online defense of doctoral theses, the “Procedure for online defense of doctoral theses in UPT is established for academic year 2019-2020” (HS no.111 / 14.05.2020) presented in Annex A.1.1.1.c-8. <p>publicly available at:</p> <p>http://www.upt.ro/img/files/hs/2020/14.05.2020/HS_111_14.05.2020_Procuctura-sustinere-online-teze-doctorat.pdf</p> <ul style="list-style-type: none"> Through HS 231 / 17.09.2020 (Annex A.1.1.1.c-9.) the validity of the Procedure for the online defense of doctoral theses in UPT for the academic year 2020-2021 has been extended. 	
	<p>(d) The existence of mechanisms for the recognition of the quality of doctoral coordinator and for the equivalence of doctorates obtained in other states;</p>	<p>(d) IOSUD-UPT through the Doctoral School uses its own procedure for the recognition of the doctoral diploma and the doctoral title obtained abroad (Annex A.1.1.1.d-1).</p> <p>In the annex Annex A.1.1.1.d, the Recognition Certificates issued by IOSUD-UPT are presented for doctoral diplomas recognized by IOSUD-UPT.</p> <p>Also, IOSUD-UPT collaborates permanently with CNRED regarding the recognition process, and sends periodically to CNRED a list of the recognition requests.</p> <p>IOSUD-UPT through the Doctoral School uses its own procedure for recognizing the quality of doctoral coordinator obtained in other states (Annex A.1.1.1.d-2).</p>	<p><i>fulfilled</i></p>

	<p>(e) The management structures (Doctoral School Council), proving the regularity of organizing the meetings;;</p>	<p>(e) According to the regulation in Annex A.1.1.1.a, 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 Annex A.1.1.1.e-1, the CSUD / CSD structure is presented in Annex A.1.1.1.e-2, publicly available at:</p> <p>http://www.upt.ro/Informatii_conducerea-universitatii-politehnica-timisoara_311_en.html</p> <p>http://www.upt.ro/Informatii_consiliul-pentru-studii-universitare-de-doctorat---scoala-do_310_en.html</p> <p>The register of minutes of CSUD / CSD meetings can be consulted at the headquarters of the Doctoral School of Engineering Studies. Meetings are organized whenever the situation requires it (analysis and approval of CSUD / CSD decisions, updating methodologies and instructions for doctoral studies, etc.).</p>	<p><i>fulfilled</i></p>
	<p>(f) The Doctoral Studies Contract.;</p>	<p>(f) The relationship between IOSUD-UPT, the doctoral student and the Doctorate coordinator is formalized according to the law through the Contract for doctoral studies.</p> <p>In Annex A.1.1.1.f-1, Annex A.1.1.1.f-2, Annex A.1.1.1.f-3, Annex A.1.1.1.f-4, Annex A.1.1.1.f-5, the versions of the Contract used in the period 2019 - 2015 are presented.</p>	<p><i>fulfilled</i></p>
	<p>(g) internal procedures for analysis and approval of proposals on the topic of training programs based on advanced university studies.</p>	<p>(g) The Doctoral School aims to ensure the correlation of the topics of training programs based on advanced university studies with the research topics proposed by doctoral coordinators and assumed by IOSUD-UPT, doctoral coordinators and doctoral students through doctoral university contracts.</p> <p>The training program based on advanced university studies is developed on the basis of an individual training plan based on advanced university studies (Annex 1 to the doctoral studies contract) developed solely and</p>	<p><i>fulfilled</i></p>

		<p>independently by the doctoral coordinator for each doctoral student, after admission to doctoral studies.</p> <p>Based on the IOSUD-UPT <i>Procedure for analysis and approval of proposals on the subject of the training program based on advanced university studies</i> (Annex A.1.1.1.g-1.), The Doctoral School Council, through the Director of the Doctoral School issues a decision that approves the plans for individual training based on advanced university studies for the current academic year (Annex A.1.1.1.g-2.).</p>	
	<p>A.1.1.2. The regulations of the doctoral school include criteria, procedures and mandatory standards for the aspects specified in art. 17 para. (5) of the Code of doctoral studies, approved by Government Decision no. 681/2011, with subsequent amendments and completions.</p>	<p>A.1.1.2. According to art.17, par. 5 of GD of the single doctoral school within IOSUD-UPT (681/2011 The regulation) – (Annex A.1.1.1.a.) establishes mandatory criteria, procedures and standards regarding the following aspects:</p> <ul style="list-style-type: none"> a) acceptance of new doctoral coordinators, as well as the regulations regarding the method by that a doctoral coordinator may be revoked as a member of the doctoral school (Art. 16, 17); b) the mechanisms through which decisions are taken regarding the opportunity, structure and content of the training program based on advanced university studies (Art. 55-67); c) the procedures for changing the doctoral coordinator of a certain doctoral student and the procedures for mediating the conflicts (Art. 15, 25); d) the conditions under which the doctoral program may be interrupted (Art. 47, 48); e) ways to prevent fraud in scientific research, including plagiarism (Art. 77, 79, 85); f) ensuring access to research resources; (Art. 68-72); g) The attendance obligations of doctoral students (Art. 41, 53). 	<p><i>fulfilled</i></p>

	<p>* A.1.1.3. The doctoral schools of IOSUD are organized on disciplines or disciplinary and interdisciplinary topics, in accordance with art. 158, para. (7) of the National Education Law no. 1/2011 with subsequent amendments and completions.</p>	<p>* A.1.1.3. According to Art. 4 of the Institutional Regulation for the Organization of Doctoral University Studies at the Polytechnic University of Timișoara (Annex A.1.1.1.a.), The <i>Doctoral School of Engineering Studies</i> is an organizational and administrative structure established within IOSUD and which provides the necessary support for organizing the doctoral studies in a certain discipline or disciplinary or interdisciplinary topic.</p> <p>Also, within the Doctoral School of Engineering studies, the doctoral fields structured on disciplinary topics are active, namely: <i>Chemical Engineering, Civil Engineering and Installations, Electrical Engineering, Energy Engineering, Electronic Engineering, Telecommunications and Information Technology, Computers and Information Technology, Systems engineering, Mechanical engineering, Industrial engineering, Materials engineering, Engineering and management.</i></p> <p>Within IOSUD-UPT, the topics of doctoral studies are also organized on interdisciplinary basis through the coordination of doctoral students in co-supervision, where the doctoral coordinators are affiliated to different doctoral fields. Annex A.1.1.3 presents the doctoral theses coordinated in co-supervision on interdisciplinary topics. (Annex A.1.1.3).</p>	<p><i>fulfilled</i></p>
<p>A.1.2. IOSUD has the necessary logistical resources to fulfill the mission of doctoral studies.</p>	<p>A.1.2.1. The existence and effectiveness of an adequate computer system for the record of doctoral students and their academic career.</p>	<p>A.1.2.1. The computer system for the record of doctoral students and the academic career used in the IOSUD-UPT comprises mainly:</p> <ul style="list-style-type: none"> • The ENROLL admission platform (intended for the management of the information on the admission of students, which is being expanded for doctoral studies for monitoring the activity of doctoral students and setting up the doctoral file in electronic format). • Starting with the academic year 2017/2018 in IOSUD - UPT, the admission process to doctoral studies is computerized, by accessing by the candidates the ENROLL platform, at the address: http://admitere.upt.ro/phd/ 	<p><i>fulfilled</i></p>

		<ul style="list-style-type: none"> • Starting with the academic year 2020/2021, IOSUD - UPT created the possibility for students to have the entire admission file created and submitted on the ENROLL platform. • Instructions for completing the admission file in the ENROLL platform are presented in Annex A.1.2.1-1. <p>which are publicly available at:</p> <p>http://www.upt.ro/img/files/2019-2020/admitere/doctorat/Admitere_PHD_2020_Instructiuni_enroll_rev_3.pdf</p> <ul style="list-style-type: none"> • Each candidate creates a user account, following with the user and password received by e-mail, used to log in and to fill in the required data. Subsequently, the enrollment form for doctoral studies is generated from the ENROLL platform. • The enrollment form for doctoral studies includes: <ul style="list-style-type: none"> I. Personal <ul style="list-style-type: none"> • Editing personal data II. Studies <ul style="list-style-type: none"> • Data on graduated high school • Data on bachelor's studies • Data on master's studies / advanced studies III. Statement on own responsibility regarding doctoral studies financed from the state budget • Choice of doctoral studies options <ul style="list-style-type: none"> • Doctoral field • Financing options • Doctoral coordinator • Uploading documents 	
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		<ul style="list-style-type: none"> • Finalizing the registration. • The ENROLL platform is used starting with 2017 for the generation of doctoral study contracts for admitted doctoral students, respectively for the generation of meta-data necessary for the inclusion of doctoral students in the Unique Matriculation Register (RMU). In the future, ENROLL will be expanded to allow the generation of all documents that are included in the doctoral student's file. • The ACCESS database “<i>Records of doctoral students enrolled in UPT</i>” is intended to keep track of doctoral students enrolled in UPT and to highlight their academic career. • For groups of enrolled doctoral students, selected on certain criteria (doctoral field, doctoral coordinator, year of enrollment, type of funding, etc.) various queries and data extraction can be done, that is the raw material for any type of required statistics. <p><i>Thus, the following can be highlighted:</i></p> <ul style="list-style-type: none"> • General / personal data for each enrolled student • The situation of doctoral students enrolled in each field / faculty / for each doctoral coordinator in a field, for a specific period of time, • The situation of doctoral students expelled for each field / faculty / for each doctoral coordinator in a field, for a certain period of time, • Situation of doctoral students who have elaborated and defended doctoral theses in a specific period of time, • Situation of doctoral students who have interrupted doctoral studies, • Number of doctoral theses defended in the specific period of time, • The situation of doctoral students with scholarship, • The situation of doctoral students without scholarship, • The situation of doctoral students with a fee, 	
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		<ul style="list-style-type: none"> • Observations regarding the doctoral studies: interruption / expulsion / extension. <p><i>The academic path can be followed using the fields related to the doctoral program:</i></p> <ul style="list-style-type: none"> • disciplines of the advanced university program and the coordinators of these disciplines, • date of the defense and the grade awarded for each of the disciplines of the advanced university program, • title of the research project, • research reports 1 and 2 , with their supporting data, • Composition of the advising committee, • Title of the doctoral thesis, • Composition of the doctoral committee, • Date of the doctoral thesis defense and the grade awarded, • Number of the order of the minister conferring the doctoral degree and its date, <p>In Annex A 1.2.1-2, examples of database usage are presented - List of doctors within IOSUD-UPT, in the period 2016-2020.</p>	
	<p>A.1.2.2. Existence and use of appropriate computer program and evidence of its usage to verify the percentage of similarity in all doctoral theses.</p>	<p>A.1.2.2. IOSUD-UPT performed the verification of the similarity percentage in the doctoral theses elaborated starting with 2016, using the following computer programs, approved by MENCS acc. OM 3485/2016.</p> <ul style="list-style-type: none"> • <i>Plagiat.pl</i>, through the computer platform doct.edu.ro/doct of the Ministry of Education, between June 2016 and July 2017. • <i>SemPlag</i>, through the platform uefiscdi-direct.ro/semplag/index.php, between August 2017 and September 2017. • <i>iThenticate</i> (purchased by UPT), October 2017 - present. 	<p><i>fulfilled</i></p>

		<ul style="list-style-type: none"> • Annex A.1.2.2-1, there is a list of doctoral students within IOSUD-UPT for which the computer programs for verifying the similarity percentage were used. • Annex A.1.2.2-2, examples of using the similarity software for PhD students within IOSUD-UPT are presented. 	
A.2. Research infrastructure			
Standards	Performance indicators	Findings	Degree of fulfillment of the requirement <i>fulfilled / partially fulfilled / not fulfilled</i>
A.2.1. IOSUD / Doctoral schools have a modern research infrastructure to support the development of activities specific to doctoral studies.	A.2.1.1. IOSUD / Doctoral school / schools present evidence regarding the possession or renting of spaces for research activities specific to doctoral university study programs (laboratories, experimental fields, research stations, etc.).	<p>A.2.1.1. The spaces and infrastructure of IOSUD / Doctoral School allow the implementation 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.).</p> <ul style="list-style-type: none"> • The Central Library of UPT offers access to information resources both traditionally and electronically. The library has the following types of information resources: monographs, periodical publications, electronic resources with local access and remote access. They are 45% free on the book-shelf and 55% in book and magazine stores. • The library has an area of 8400 m², 6 levels, 750 reading places, Reading room 24h access with 100 seats, Group study rooms, Conference room, Multimedia rooms, IT spaces, Individual study rooms as well as spaces for relaxation. 	<i>fulfilled</i>

- The informational resources can be accessed by the library users by searching the electronic Catalog or by direct access to the book-shelf, the books in free access, being arranged as follows:
 - In alphabetical order of the domain / subdomain;
 - Within the domains / subdomains in alphabetical order of the quota (respecting the author / title of the publication);
 - Within the quota belonging to an author / title in the alphabetical order of the titles;
 - Within the same title, in the order of editions / chronological;
 - In the edition of the same title, in ascending order of inventory number.
- The library collections with free access to the book-shelf are presented in the following table.

1. The Art. Science. Technique	Art. Science. Technique	Fl. IIB - Free access
	Book Deposit	Basement
2. Doctoral	Doctoral theses	Fl. IIIA - Free access
	Book Deposit	Basement
3. Language. Linguistics. Literature	Language. Literature	Fl. IIIB - Free access
	Book Deposit	Basement
4. Standards	Standards	Fl. IIIA - Free access
5. References	References	Fl. IIA - Free Access
	Card Storage	Basement
6. Journals	Journals	Et. IIB - Free access
	Journal Deposit	Ground floor
7. Bibliographies	Bibliographies	Et. IA - Free access
	Bibliographies Deposit	Basement
8. Old books	Old books	Basement
9. Rare books	Rare books	Basement

10. UPT Professors
Collection (1920-1955)


UPT Professors
Collection (1920-1955)

Basement

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

Caută în catalogul online al BUPT ...

2. from the WEB page

 CATALOGUL ONLINE - PRIMO

- The Library databases 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 Subscribed Databases



The library's subscribed databases are:

Baze de date



Platforma de cercetare ScienceDirect oferă acces în text integral la reviste științifice de cercetare în format online, cărți academice, serii de cărți și enciclopedii online. Peste 25% din informația apărută la nivel global în domeniile științe exacte și științe umaniste, tehnologie și medicină este publicată pe platforma Elsevier Science Direct. Este înconștientabil, cea mai importantă resursă informațională academică a celor noastre și cumpere revistele editurile de grup editoriale Elsevier (grupul de edituri: Elsevier, Churchill și Ingold, Saunders, Mosby, Cell Press, Pergamon, Butterworth-Heinemann, Academic Press, The Lancet, JAI Press, North Holland, Masson).



Platforma SpringerLink oferă acces cu text integral la reviste științifice de cercetare în format online, fără alt suport magnetic sau de hartă. Este una din cele mai utilizate resurse electronice de documentare științifică din lume și de 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 (până de 1.001 în 2005), peste 150.000 de cărți online, peste 4.400 serii de cărți și 307 de lucrări de referință online, peste 34.000 de protocoale, colecțiile sale continuând reviste de la cele mai mari biblioteci 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 articolelor științifice și de identificare a noilor tendințe și tehnologii la nivel mondial. Web of Knowledge este autotitulară recunoscută pentru evaluarea ISI a jurnalelor științifice, creat în colaborare cu prestigiosul Institute for Scientific Information din Philadelphia, SUA.



IEEE/NET Electronic Library (IEL) oferă acces la mai mult de o treime din literatura din domeniul ingineriei și a științelor calculatoarelor din întreaga lume, punând la dispoziție materiale de foarte bună calitate de la Institute of Electrical and Electronic Engineers (IEEE) și Institute of Engineering and Technology (IET). Este în baza de date liberă pentru universități, corporații și agenți guvernamentale.

Un abonament la IEEE/NET Electronic Library oferă acces la textul integral pentru toate revistele, cărțile, lucrările și rapoartele de la o sursă confidențială către cele 1000+ reviste și lucrări de la diverse companii editoare.



Scopus este o bază de date bibliografică și bibliometrică în format online, cu o sursă de reviste științifice livrată prin intermediul internetului. Oferă acces la rezumatul articolelor științifice din peste 10.000 de reviste științifice internaționale publicate la peste 8000 de edituri internaționale. Utilizează ca instrument de evaluare indicile Hirsch care permit evaluarea autorilor și institutiilor 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, decret-lege, hotărâri, ordonanțe, ordine, cereri, norme, precizări), anexe, acte republicate din anul 1910 și până în prezent, (se actualizează odată cu apariția Monitorului Oficial).

		<ul style="list-style-type: none"> • Traditional information resources not found in the electronic catalog can be found in traditional library catalogs. • The accesses to the databases subscribed within the Anelis Consortium (later Anelis Plus) during May-October 2018 are: <ol style="list-style-type: none"> 1. IP: 48,321 accesses; 2. Mobile access: 390,281 accesses. <p>The major research infrastructures in the IOSUD-UPT research laboratories are presented on the national public platform of ERRIS research infrastructures, at https://eeris.eu/ERIO-2000-000R-0036</p> <p>Within IOSUD-UPT there are 25 Research Centers and a Research Institute for Renewable Energies (ICER), presented at: http://upt.ro/Upt-Timisoara_centre-si-institute-de-cercetare-153_en.html</p>	
	<p>A.2.1.2. IOSUD / The doctoral school / schools has collaboration agreements with higher education institutions, research institutes, research networks for the exploitation in partnership of various research infrastructures, and publicly presents its offer of research services through the specialized platform.</p>	<p>A.2.1.2. IOSUD-UPT has partnership agreements with a number of companies, research institutes and universities.</p> <ul style="list-style-type: none"> • The framework agreements with companies in the country can be found publicly at: http://www.upt.ro/Informatii_oficiul-de-coordonare-a-practicii-studentilor-din-upt_845_en.html • The UPT framework agreements for cooperation with universities at the national level and abroad, can be found publicly at: http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Acorduri-cadru-de-cooperare-cu-universitati-din-tara-si-strainatate_31_en.html 	<i>fulfilled</i>

		<ul style="list-style-type: none"> Cooperation agreements with enterprises, associations and research centers can be found publicly at: http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Acorduri-de-cooperare-cu-intreprinderi,-asociatii-si-centre-de-cercetare_65_en.html IOSUD-UPT presents publicly its offer of research services through the EERIS platform: https://eeris.eu/ERIO-2000-000R-0036 	
	<p>A.2.1.3. IOSUD / Doctoral School demonstrates its concern for the permanent renewal of research infrastructure that provides doctoral students with access to current research resources, by applying in various competitions for funding research infrastructure and by acquiring research infrastructure from their own revenues of the IOSUD.</p>	<p>A.2.1.3. The doctoral school of engineering studies within IOSUD-UPT has always been concerned for the permanent renewal of the research infrastructure. In Annex A.2.1.3 are presented Expenses for professional training of doctoral students - LABORATORY MODERNIZATION in the period 2016-2020, expenses in total amount of 1 915 894.80 lei.</p>	<i>fulfilled</i>
A.3. Quality of human resources			
Standards	Performance indicators	Findings	Degree of fulfillment of the requirement <i>fulfilled / partially fulfilled / not fulfilled</i>

<p>A.3.1. At the level of each doctoral school there are qualified personnel with the necessary experience to carry out the program of doctoral studies.</p>	<p>* A.3.1.1. The share of doctoral supervisors who coordinate at the same time more than 8 doctoral students, but not more than 12, during their doctoral studies, does not exceed 20%.</p>	<p>* A.3.1.1. The list of doctoral supervisors and the number of doctoral students in coordination at the date of preparation of the present report is included in Annex A.3.1.1. Out of the total of 137 doctoral supervisors within IOSUD-UPT, 8 doctoral supervisors coordinate at the same time more than 8 doctoral students, but not more than 12, during their doctoral studies (3 or 4 years, depending on field, to which are added the legally granted extension periods). Therefore the percentage is: $(8/137) * 100 = 5.84\%$ - CRITERION FULFILLED $\leq 20\%$</p>	<p><i>fulfilled</i></p>
	<p>A.3.1.2. At least 50% of the teaching / research staff involved in teaching and research activities related to the programs of preparation for advanced university studies or in the individual programs of scientific research or artistic creation are tenured of IOSUD, employed with the full-time employment contract.</p>	<p>A.3.1.2. The advanced university study programs, respectively the individual scientific research programs are managed mostly by tenured teachers as follows: - The ratio of tenured doctoral supervisors is $75/137 * 100 = 54.7\%$ in accordance with Annex A.3.1.2-1. - The ratio of tenured teachers in the advising commissions, which coordinates both advanced university study programs and individual scientific research programs is $281/359 * 100 = 78.3\%$. (Annex A.3.1.2-2.)</p>	<p><i>fulfilled</i></p>

B. EDUCATIONAL EFFECTIVENESS

B.1. Number, quality and diversity of candidates who applied for the admission competition

Standards	Performance indicators	Findings	Degree of fulfillment of the requirement <i>fulfilled /</i>
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			<i>partially fulfilled / not fulfilled</i>
B.1.1. Candidates admitted to doctoral studies demonstrate academic, research and professional performance, are diversified as gender and social representation.	*B.1.1.1. Admission to doctoral study programs is based on selection criteria that include: previous professional performance of candidates, their interest in scientific or artistic / sports research, publications in the field and a research topic proposal. An interview with the applicant is a mandatory part of the admission procedure.	<p>*B.1.1.1. Admission to doctoral studies in IOSUD-UPT is in accordance with the Institutional Procedure regarding the organization of the admission to doctoral university studies in UPT, updated annually in accordance with legislative regulations.</p> <p>According to this procedure, there is a set of criteria for selecting candidates (Annex 7 of the Admission Procedure) - Annex B.1.1.1.</p> <ul style="list-style-type: none"> • Academic performance is quantified by grades N₁-N₄ in the Selection Criteria. • The interview with the applicant - aims at the quality and clarity of the directions and intentions of study considered in the presentation of the research topic proposal - quantified on the basis of note N₅ • The interest for the scientific research is quantified with the notes N₆ - N₈. • Scientific publications are quantified with the notes N₉ - N₁₀. <p>For the admission of the academic year 2019/2020, the information is public at:</p> <p>http://www.upt.ro/Informatii_arhiva---admitere-doctorat-2019_1418_en.html</p>	<i>fulfilled</i>

		<p>Admission to doctoral university studies within IOSUD-UPT is organized on the basis of an admission colloquium.</p> <p>The Council of the Doctoral School of Engineering Studies from IOSUD-UPT establishes and displays, after the registration period, the doctoral admission commissions associated with the doctoral fields from IOSUD-UPT. The doctoral admission commission is made up of permanent members, the secretary of the commission and the chairman of the commission. The permanent members of the commission are the same for both admission sessions.</p> <p>http://www.upt.ro/img/files/2018-2019/admitere/doctorat/IOSUD-UPT-admitere-2019_procedura.pdf</p>	
	<p>B.1.1.2. IOSUD / Doctoral school / schools has a policy of stimulating the enrollment of doctoral students from disadvantaged social backgrounds, by allocating special places for admission and / or granting social scholarships or organizing support programs to prevent university dropouts.</p>	<p>B.1.1.2. IOSUD-UPT uses the following mechanisms to stimulate doctoral students and prevent university dropouts:</p> <ul style="list-style-type: none"> ● Special scholarships, from UPT's own income, for master students in order to stimulate participation in doctoral university study programs, according to HCA 08 / 21.02.2017. (Annex B.1.1.2-a) ● Doctoral grants, from UPT's own income, for the completion of doctoral studies and the doctoral thesis, granted on the basis of the Decision of the UPT Senate or of the UPT Board of Directors. (Annex B.1.1.2-b) ● Doctoral scholarships, from UPT's own income, granted starting with the 2018/2019 academic year. (Annex B.1.1.2-c) 	<p><i>fulfilled</i></p>
<p>B.2. Content of doctoral university study programs</p>			

Standards	Performance indicators	Findings	Degree of fulfillment of the requirement <i>fulfilled / partially fulfilled / not fulfilled</i>
<p>B.2.1. The training program based on advanced university studies is appropriate to improve the research skills of doctoral students and to strengthen ethical behavior in science.</p>	<p>B.2.1.1. The training program based on advanced university studies includes at least 3 courses relevant for the training of the doctoral students in scientific research. At least one discipline is intended for the in-depth study of research methodology and / or statistical data processing.</p>	<p>B.2.1.1. The individual plan for the training of the doctoral student through advanced university studies, representing Annex 1 to the Contract of doctoral studies, contains three courses relevant for the scientific research training of the doctoral student. According to the UPT regulations (footnote 1 of the annex):</p> <p><i>“The individual plan will include the following types of courses:</i></p> <ul style="list-style-type: none"> <i>i) cross-curricular course, organized by the Doctoral School (SD);</i> <i>ii) tutorial course on doctoral research topic (based on individual study program proposed and mentored, by the doctoral coordinator);</i> <i>iii) MSc course (that was not previously attended by the doctoral student).</i> <p><i>The cross-curricular course is mandatory. The other two courses can be of choice of type ii) or iii).</i></p> <ul style="list-style-type: none"> • The cross-curricular course (related to all doctoral students in the first year), adopted in UPT, is a discipline related to the research methodology and deontology of the scientific researcher, a discipline 	<p><i>fulfilled</i></p>

		<p>that in the period 2008-2018 was entitled <i>Scientific research, communication and deontology</i>, and starting with the year 2018 is entitled <i>Ethics and academic integrity in scientific research and dissemination of results</i>.</p> <p>The subject content file is public and can be found at the addresses:</p> <ul style="list-style-type: none"> ○ http://www.upt.ro/Informatii_cscs_419_ro.html (2008-2017) and ○ http://www.upt.ro/Informatii_etica-si-integritate-academica-in-cercetarea-scientific-and-1409_en.html (present). <ul style="list-style-type: none"> • Within the course there are 7 lectures, 7 conferences (by different lecturers, all scientific recognized experts) and 7 seminars (by 6 distinct lecturers, all scientific recognized experts). This discipline (course) is intended for the in-depth study of the research methodology, being developed competencies and skills related to the research methodology. • The second and third disciplines in the plan are chosen by the doctoral coordinator so as to contribute to the deepening of the field and the doctoral topic. In Annex B.2.1.1-1, individual doctoral training plans are presented for the evaluated doctoral field. • The evidence of the results, obtained for the courses from the individual training plan, is kept at the UPT Doctoral School in examination minutes, summarized in Annex 2 of the Contract of the doctoral studies (Annex B.2.1.1-2). 	
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	<p>B.2.1.2. There is at least one discipline dedicated to ethics in scientific research and intellectual property or the theme well-defined on these topics within a discipline taught in the training program.</p>	<p>B.2.1.2. Within the advanced university training program for doctoral students from IOSUD-UPT, the discipline is included, mandatory for all doctoral students</p> <p>“<i>Scientific research, communication and deontology</i>” (2008-2017).</p> <p>The subject content sheet is public and can be found at the following addresses:</p> <p>http://www.upt.ro/Informatii_cscs_419_en.html</p> <p>http://www.upt.ro/img/files/2016-2017/doctorat/cscd/170511_CSCD.pdf</p> <p>Starting with the year 2018 the cross-curricular course has been entitled “<i>Ethics and academic integrity in scientific research and dissemination of results</i>”.</p> <p>The subject content sheet is public and can be found at:</p> <p>http://www.upt.ro/img/files/2019-2020/doctorat/EIACSDR/200528_Fisa_disciplinei_EIACSDR-2019-2020.pdf</p> <p>The subject content sheets related to the academic years 2018/2019 and 2019/2020 are presented in Annex B.2.1.2.</p>	<p><i>fulfilled</i></p>
	<p>B.2.1.3. IOSUD has created mechanisms to ensure that the training program based on advanced university studies,</p>	<p>B.2.1.3. The main objective of doctoral study programs is to prepare doctoral students, through mentored doctoral research, to become independent scientific researchers, confirmed by obtaining the doctoral</p>	<p><i>fulfilled</i></p>

	<p>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 the research activities.</p>	<p>degree after publicly defending the doctoral thesis, meeting 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 competencies, skills and aptitudes acquired by doctoral students through the disciplines within the advanced university training program are specified in the course sheets as follows:</p> <ul style="list-style-type: none"> • For the cross-curricular course, followed by all doctoral students, competencies and skills related to research methodology are developed (structured on projects specific to scientific research, technological development and innovation based on research-development), but also the correct attitude related to the rules of research ethics and dissemination of research results, according to the cross-curricular course file (Annex B.2.1.3-1.), that for the academic year 2019-2020 can be found publicly at: http://www.upt.ro/img/files/2019-2020/doctorat/EIACSDR/200528_Fisa_disciplinei_EIACSDR-2019-2020.pdf • For the courses from MSc programs, recommended to the doctoral student by the doctoral coordinator, the competencies, skills and abilities developed, can be found in the course file, cf. Annex B.2.1.3-2. - Example of the MSc sheet. By completing such master's courses, complementary to the previous master's degree training, the doctoral student acquires additional professional skills related to the topic of the doctoral thesis. 	
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		<ul style="list-style-type: none"> • After completing the tutorial courses, the doctoral student deepens topics specific to the doctoral topic, indicated by the doctoral coordinator, the examination being made by the doctoral coordinator along with the advising committee members. • The completion of the courses from the training program based on advanced university studies or doctoral research activities aims at acquiring the competencies and abilities related to level 8 of qualifications, according to the National Qualifications Framework (CNC). Consequently, IOSUD-UPT applies a procedure for verifying the fulfillment of the exigencies of the doctoral university studies (Annex B.2.1.3.). 	
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B.3. Results of doctoral studies and their evaluation procedures

Standards	Performance indicators	Findings	Degree of fulfillment of the requirement <i>fulfilled / partially fulfilled / not fulfilled</i>
B.3.1. The research is materialized by doctoral students through presentations at scientific conferences, scientific publications, through technology transfer,	B.3.1.1. Within the doctoral school there are initiatives for materialization of the results of doctoral studies according to the specifics of the field (eg technology transfer, products, patents for exact sciences; products and services for	<p>B.3.1.1. IOSUD-UPT financially supports the participation of doctoral students in scientific events and the publication of scientific papers in WOS indexed journals:</p> <p>http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Programul-de-finantare-ISI_27_en.html</p>	<i>fulfilled</i>

<p>patents, products, services.</p>	<p>social and humanities; festivals, competitions, recitals, sports competitions; cultural-artistic orders in the vocational field; presentations at national and international conferences, publication of research results in national and international publications, involvement of doctoral students in the development of R&D projects, etc.).</p>	<p>In 2018 in within the IOSUD-UPT, a scholarship program was developed for doctoral students participating in prestigious international conferences organized by UPT:</p> <p>http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Burse-pentru-doctoranzi-care-participate-in-conferences-organized-by-UPT_126_en.html</p> <p>In accordance with the quality standard regarding the results of doctoral studies in IOSUD-UPT, the research conducted by 138 doctoral students (who obtained the title of doctor) was capitalized by publishing a number of 649 papers in WOS indexed journals respectively in WOS indexed Proceedings, in the period covered by the present report. (Annex B.3.1.1).</p>	
<p>B.4. The quality of doctoral theses</p>			
<p>B.4.1. The doctoral theses fulfill the high quality standards.</p>	<p>B.4.1.1. At the level of IOSUD, the percentage of invalidated theses, without the possibility for recovering or resume the public defense procedure, at the level of the CNATDCU General Council, is maximum 5% in the last five years.</p>	<p>B.4.1.1. Within IOSUD-UPT there were no doctoral theses that required the reinstatement and renewal of the public defense procedure. Therefore the percentage is 0%.</p>	<p><i>fulfilled</i></p>
<p>C. QUALITY MANAGEMENT</p>			
<p>C.1. Existence and regular development of the internal quality assurance system</p>			

Standards	Performance indicators	Findings	Degree of fulfillment of the requirement <i>fulfilled / partially fulfilled / not fulfilled</i>
<p>C.1.1. The institutional framework exists and policies and procedures are applied for relevant internal quality assurance.</p>	<p>C.1.1.1. IOSUD has developed and periodically applies a procedure for evaluation and internal monitoring of the activities within the doctoral schools, among the evaluated criteria being mandatory:</p> <p>(a) the scientific activity of the doctoral supervisors;</p>	<p>C.1.1.1. Annex C.1.1.1-a.</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 documents standardized at the national level, centralized at department and university level and uploaded on the IT platform of Ministry of Education (ME). The results are considered for the process of allocating funding by ME and verified / validated by CNFIS.</p> <p>In addition to these reports, there are also internal reports in UPT that are used in the process of allocating funding to departments (eg. internal reports made on the electronic platform COGITO, models / electronic evaluation grids used for evaluation of the teaching and research results to obtain the degree of merit).</p> <p>These results are discussed, analyzed by the Board of Directors and departments, and presented and validated in the Annual Report of the Rector of UPT and in other institutional documents, such as, for example, Research Report.</p>	<p><i>fulfilled</i></p>

		<p>The reports are used to monitor and evaluate the results and performances 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, acc. 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 granting the didactic titles in higher education, of the professional degrees of research-development, of the quality of doctoral coordinator and of the habilitation degree.</p>	
	<p>(b) infrastructure and logistics necessary to carry out the research activity;</p>	<p>C.1.1.1-b.</p> <p>"UPT's strategic development plan for the period 2016-2020" considered the continuation of activities and the development of mechanisms to support research excellence in the university. In order to achieve these goals, the constant development of UPT's research infrastructure at the level of international standards, is necessary.</p> <p>UPT's research activity is mainly carried out in the frame of 25 UPT research centers. Their research infrastructure is highlighted on the ERRIS platform, at the following link:</p> <p>https://eeris.eu/ERIO-2000-000R-0036</p> <p>Among the most important research infrastructures in UPT we can emphasize <i>the Research Institute for Renewable Energies - ICER</i>. It was funded by the POSCCE operational program, priority axis 2 "Competitiveness through Research, Technological Development and Innovation", in a period 2009–2014. The total value of the project was 66 882 357 lei. 18 new research laboratories were created and 5 were modernized, 120 equipments were purchased, 12 of them with a value of over 100,000 EUR. Many of the existing high-performance equipment at ICER are unique within the Timisoara University Center. These are used</p>	<p><i>fulfilled</i></p>

		<p>for research grants in interdisciplinary fields proceeding in UPT: Complex projects, PED, Bridge, H2020, cross-border projects, etc.</p> <p>Another research center of UPT with a remarkable infrastructure is <i>the Research Center for Materials Mechanics and Structural Safety (CEMSIG)</i>, established in 1999. The research areas emphasis on cold formed metal structures and the performance of metal and composite structures under seismic actions, fire and other natural and human hazards, as well as on high-performance materials for metal structures located in seismic regions. Through a POSCCE-contract <i>ACTEX</i>, CEMSIG benefited from research infrastructure worth 21 000 000 lei.</p> <p>The development of UPT's research infrastructure is achieved through research and development contracts carried out in the university, obtained through national and international competitions, but also through UPT's internal research grants, organized in recent years and financed from UPT's own revenues and oriented to young researchers.</p>	
	<p>(c) regulations and procedures on the basis of which the doctoral studies are organized.</p>	<p>C.1.1.1-c. - Continuous updating of regulations, procedures, and working instructions in accordance with national legislation, but also with the evolution of the requirements of doctoral students or doctoral coordinators.</p> <p>The procedure for admission to doctoral studies is updated periodically, in accordance with the modifications of national legislation.</p> <p>For the academic year 2019-2020, the procedure can be found at: http://www.upt.ro/img/files/2018-2019/admitere/doctorat/IOSUD-UPT-admitere-2019_procedura.pdf</p> <p>The contract for doctoral studies is updated annually.</p> <p>The documents related to doctoral students enrolled in the period 2015-2019 can be found publicly at:</p>	<p><i>fulfilled</i></p>

		http://www.upt.ro/Informatii_documentele-doctoranzilor-inmatriculati-in-perioada-2005-201_289_en.html	
	<p>(d) social and academic support services (including participations in various events, publication of articles, etc.) and counseling provided to doctoral students.</p>	<p>C.1.1.1-d. Within IOSUD-UPT, the Career Counseling and Guidance Center (CICOC) operates as a structure of the Politehnica University Timișoara (UPT) with the mission to offer the best possible information, professional orientation and social integration of students:</p> <p>https://www.cicoc.upt.ro/</p> <p>https://www.facebook.com/CCOC.UPT</p> <p>Also, within the cross-curricular course of “<i>Ethics and academic integrity in scientific research and dissemination of results</i>”, lectures and seminars are organized in order to advise the doctoral students in participation at scientific events and the publication of articles in specialized journals:</p> <p>http://www.upt.ro/img/files/2020-2021/doctorat/EIACSDR/210421_Fisa_disciplinei_EIACSDR-2020-2021.pdf</p> <p>At the same time IOSUD-UPT financially supports the participation of doctoral students in scientific events and publication of scientific papers in WOS indexed journals:</p> <p>http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Programul-de-finantare-ISI_27_en.html</p>	<p><i>fulfilled</i></p>

		<p>In 2018 within IOSUD-UPT, a scholarship program was developed for doctoral students participating in prestigious international conferences organized by UPT:</p> <p>http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Burse-pentru-doctoranzi-care_participate-in-conferences-organized-by-UPT_126_en.html</p>	
	<p>C.1.1.2. Student associations and, as the case may be, the representative students organize elections among doctoral students, for positions in CSUD, by universal, direct and secret ballot, all doctoral students having the right to choose and be elected.</p>	<p>C.1.1.2. The representation of doctoral students in the organizational structures of doctoral studies is a priority for IOSUD-UPT, supported by the following documents:</p> <ol style="list-style-type: none"> 1. Institutional Regulation for Organizing and Conducting Elections for Organizational Structures and Management Functions of Doctoral Studies at IOSUD-UPT, approved by HS 13 / 10.05.2012, for the legislature 2012-2016: Annex A.1.1.1.b-1. <p>is publicly available at:</p> <p>http://www.upt.ro/administrare/dgac1/file/2011-2012/regulamente/IOSUD-UPT_CSUD2012.pdf</p> <ul style="list-style-type: none"> • The elections at the level of CSUD / CŞD legislature 2012-2016 can be found in Annex A. 1.1.1.b-2. <p>and is publicly available at:</p> <p>http://www.upt.ro/Informatii_alegeri-consiliu-csud_299_en.html</p> <ul style="list-style-type: none"> • The decision on the appointment of CSUD members 2012-2016 can be found in Annex A.1.1.1.b-3. 	<p><i>fulfilled</i></p>

		<p>and is publicly available at:</p> <p>http://www.upt.ro/administrare/dgac1/file/2011-2012/doctorat/alegeri_csud/Numire_membri_CSUD_22_06_2012.pdf</p> <p>2. Regulation for setting up management structures through competition the management positions at the University Politehnica Timisoara, the legislature 2016 - 2020 attached Anexa A.1.1.1.b-7.</p> <p>is publicly available at:</p> <p>http://www.upt.ro/img/files/hs/HS_207_26.11.2015_Regulament_alegeri.pdf</p> <ul style="list-style-type: none"> the elections of CSUD / CSD members for the 2016-2020 legislature can be found in Annex A.1.1.1.b-8. <p>and is publicly available at:</p> <p>http://www.upt.ro/Informatii_alegereamembrilor-csud-si-csd-pentru-mandatul-2016-2020_840_en.html</p> <ul style="list-style-type: none"> The report of the electoral commission on the appointment of CSUD members 2016-2020 can be found in Annex A.1.1.1.b-9. <p>and publicly available at:</p> <p>http://www.upt.ro/img/files/alegeri_2016/mcsud_mcsd/Raport_comisie_electorala_CSUD_CSD.pdf</p>	
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		<ul style="list-style-type: none"> List of electors for the election of doctoral students in the Council of Doctoral Studies (CSUD), respectively in the School Council Doctoral Program (CŞD) within IOSUD-UPT - January 2017 can be found in Annex C.1.1.2-1. Minutes of counting the votes for the member of the CSD - doctoral student can be found in Annex C.1.1.2-2. Minutes of counting the votes for the member in CSUD - doctoral student can be found in Annex C.1.1.2-3. <p><i>the last three documents are available at:</i></p> <p>http://www.upt.ro/Informatii_alegereamembrilor-csud-si-csd-pentru-mandatul-2016-2020_840_en.html</p> <ul style="list-style-type: none"> By HS no. 38 / 21.01.2021 the mandate of the members was extended CSUD / CŞD until 17.07.2021 (Annex A.1.1.1.b-17.) <p>And is publicly available at:</p> <p>http://www.upt.ro/img/files/hs/2021/21.01.2021/HS_38_21.01.2021_Prelungire-mandat-membri-CSUD-si-CSD.pdf</p>	
	<p>* C.1.1.3. Student associations and/ or representative students organize elections among doctoral students, at the level of each doctoral school, for positions in doctoral school councils, by universal, direct and secret ballot,</p>	<p>*C.1.1.3. The representation of doctoral students in the organizational structures of doctoral studies is a priority for IOSUD-UPT, supported by the following documents:</p> <p>The representation of doctoral students in the organizational structures of doctoral studies is a priority for IOSUD-UPT, supported by the following documents:</p>	<p><i>fulfilled</i></p>

	<p>all doctoral students having the right to elect and be elected.</p>	<ol style="list-style-type: none"> 1. Institutional Regulation for Organizing and Conducting Elections for Organizational Structures and Management Functions of Doctoral Studies at IOSUD-UPT, approved by HS 13 / 10.05.2012, for the legislature 2012-2016: Annex A.1.1.1.b-1. is publicly available at: http://www.upt.ro/administrare/dgac1/file/2011-2012/regulamente/IOSUD-UPT_CSUD2012.pdf • The elections at the level of CSUD / CŞD legislature 2012-2016 can be found in Annex A. 1.1.1.b-2. and is publicly available at: http://www.upt.ro/Informatii_alegeri-consiliu-csud_299_en.html • The decision on the appointment of CSUD members 2012-2016 can be found in Annex A.1.1.1.b-3. and is publicly available at: http://www.upt.ro/administrare/dgac1/file/2011-2012/doctorat/alegeri_csud/Numire_membri_CSUD_22_06_2012.pdf 2. Regulation for setting up management structures through competition the management positions at the University Politehnica Timisoara, the legislature 2016 - 2020 attached Anexa A.1.1.1.b-7. 	
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		<p>is publicly available at:</p> <p>http://www.upt.ro/img/files/hs/HS_207_26.11.2015_Regulament_alegeri.pdf</p> <ul style="list-style-type: none"> the elections of CSUD / CSD members for the 2016-2020 legislature can be found in Annex A.1.1.1.b-8. <p>and is publicly available at:</p> <p>http://www.upt.ro/Informatii_alegereamembrilor-csud-si-csd-pentru-mandatul-2016-2020_840_en.html</p> <ul style="list-style-type: none"> The report of the electoral commission on the appointment of CSUD members 2016-2020 can be found in Annex A.1.1.1.b-9. <p>and publicly available at:</p> <p>http://www.upt.ro/img/files/alegeri_2016/mcsud_mcsd/Raport_comisie_electorala_CSUD_CSD.pdf</p> <ul style="list-style-type: none"> List of electors for the election of doctoral students in the Council of Doctoral Studies (CSUD), respectively in the School Council Doctoral Program (CŞD) within IOSUD-UPT - January 2017 can be found in Annex C.1.1.2-1. Minutes of counting the votes for the member of the CSD - doctoral student can be found in Annex C.1.1.2-2. <p><i>the last documents are available at:</i></p>	
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		<p>http://www.upt.ro/Informatii_alegerea-membrilor-csud-si-csd-pentru-mandatul-2016-2020_840_en.html</p> <ul style="list-style-type: none"> By HS no. 38 / 21.01.2021 the mandate of the members was extended CSUD / CŞD until 17.07.2021 (Annex A.1.1.1.b-17.) <p>And is publicly available at:</p> <p>http://www.upt.ro/img/files/hs/2021/21.01.2021/HS_38_21.01.2021_Prelungire-mandat-membri-CSUD-si-CSD.pdf</p>	
	<p>C.1.1.4. Following the internal evaluation, both IOSUD and the Doctoral Schools elaborate strategies and action policies in order to remedy the reported deficiencies and to stimulate the scientific and academic performance of IOSUD.</p>	<p>C.1.1.4. In IOSUD-UPT there are permanent concerns for stimulating scientific and academic performance. The following measures are considered:</p> <ul style="list-style-type: none"> Maintaining the quality of tenure in education and research after retirement age, in accordance with HS 28 / 28.06.2012, is conditioned by holding the quality of doctoral coordinator or fulfilling the qualification conditions according to the criteria in force. (Annex C.1.1.4-a) In UPT the teachers and research periodically present the results of the research activity to the management of the department / faculty / university. The results are presented in nationally standardized documents, centralized at the department and university level, respectively, and uploaded to the MEN platform. The results are taken into account in the process of allocating funding by MEN and verified / validated by CNFIS. (Annex C.1.1.1-a) In IOSUD-UPT the public defense of the doctoral thesis is conditioned by the fulfillment of some criteria of scientific performance reflected 	<p><i>fulfilled</i></p>

		<p>by the original research carried out within the doctoral studies program by publishing, communicating or patenting the results. The minimum performance criterion of IOSUD UPT is the publication or acceptance for publication, under UPT affiliation of the doctoral student, of 2 papers in the ISI circuit (in specialized journals or volumes of scientific events abroad). (Art. 83 of the Institutional Regulation for the organization of doctoral university studies, Annex A.1.1.1.a)</p> <ul style="list-style-type: none"> In IOSUD-UPT the minimum condition for participation in the competition for the positions of university professor is the holding of the quality of doctoral coordinator (Annex C.1.1.4-b) presented at: <p>http://www.upt.ro/Informatii_concurs-de-ocupare-a-posturilor-didactice---sem-i-2018-2019_1089_en.html</p>	
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C.2. Transparency of information and accessibility to learning resources

Standards	Performance indicators	Findings	Degree of fulfillment of the requirement <i>fulfilled / partially fulfilled / not fulfilled</i>

<p>C.2.1. The information of interest for students doctoral, future candidates, respectively the information of public interest are available for consultation in electronic format.</p>	<p>C.2.1.1. IOSUD publishes on the website of the higher education institution, in compliance with the regulations in force regarding data protection, information about:</p>	<p>C.2.1.1. The Doctoral School of Engineering Studies within IOSUD-UPT published on the UPT website, in the section related to doctoral studies, http://www.upt.ro/Informatii_studii-universitare-de-doctorat_266_ro.html updated information on:</p>	<p><i>fulfilled</i></p>
	<p>a) IOSUD / doctoral school regulations;</p>	<p>a) The regulation of the doctoral school is part of the “Institutional Regulation for the Organization of the Doctoral Studies at the Politehnica University Timișoara”, http://www.upt.ro/administrare/dgac1/file/2011-2012/regulamente/Anexa_10_CartaUPT_Regulament_doctorat.pdf</p> <p>Considering that in IOSUD-UPT there is only one doctoral school that manages all doctoral fields, our option was a single document that includes the regulations for the organization of doctoral studies.</p>	<p><i>fulfilled</i></p>
	<p>b) The admission procedures;</p>	<p>b) The procedure is updated annually, in order to bring it in line with the legislative changes at the national level, respectively with the number and distribution of doctoral positions by doctoral fields:</p> <p>http://www.upt.ro/img/files/2019-2020/admission/doctorate/HS_156_11-06-2020-IOSUD-UPT-admission-2020_PROCEDURA_anexe.pdf</p> <p>The procedures regarding the organization of the admission to doctoral studies in IOSUD-UPT for the period 2015 - 2019 can be found publicly at the addresses:</p>	<p><i>fulfilled</i></p>

		<ul style="list-style-type: none"> • 2019: http://www.upt.ro/img/files/2018-2019/admitere/doctorat/IOSUD-UPT-admitere-2019_procuctura.pdf • 2018: http://www.upt.ro/img/files/2017-2018/admission/doctorate/IOSUD-UPT-admission-2018_PROCEDURA_ANEXE.pdf • 2017: http://www.upt.ro/Informatii_admitere-2017---doctorat_620_ro.html • 2016: http://www.upt.ro/Informatii_admitere-2016---doctorat_843_ro.html • 2015: http://www.upt.ro/Informatii_admitere-2015---doctorat_401_ro.html 	
	<p>c) the doctoral studies contract</p>	<p>c) The doctoral study contracts can be found publicly at the addresses:</p> <p>Year 2019/2020:</p> <ul style="list-style-type: none"> • scholarship: http://www.upt.ro/img/files/2019-2020/doctorat/Contract Studii Dotorale bursa 2019.pdf • scholarship based on UPT own income: http://www.upt.ro/img/files/2019-2020/PhD/Contract Studii Dotorale bursa venituri proprii 2019.pdf • scholarship UPT+: http://www.upt.ro/img/files/2019-2020/doctorat/Contract Studii Dotorale bursa UPT si venituri proprii 2019.pdf • without scholarship: http://www.upt.ro/img/files/2019-2020/doctorat/Contract Studii Dotorale fara bursa 2019.pdf 	<p><i>fulfilled</i></p>

		<ul style="list-style-type: none"> • fee: http://www.upt.ro/img/files/2019-2020/doctorat/Contract_Studii_Doctorale_taxa_frecventa_reduca_2019.pdf <p>Year 2018/2019:</p> <ul style="list-style-type: none"> • scholarship: http://www.upt.ro/img/files/2018-2019/doctorat/docdrd/Contract_Studii_Doctorale_bursa_2018.pdf • scholarship based on UPT own income: http://www.upt.ro/img/files/2018-2019/doctorat/docdrd/Contract_Studii_Doctorale_bursa%20venituri%20proprie_2018.pdf • No scholarship: http://www.upt.ro/img/files/2018-2019/doctorat/docdrd/Contract_Studii_Doctorale_fara%20bursa_2018.pdf • fee: http://www.upt.ro/img/files/2018-2019/doctorat/docdrd/Contract_Studii_Doctorale_taxa_frecventa%20reduca_2018.pdf <p>Year 2017/2018:</p> <ul style="list-style-type: none"> • Scholarship: http://www.upt.ro/img/files/2017-2018/doctorat/docdrd/Contract_Studii_Doctorale_bursa_2017.pdf • without scholarship: http://www.upt.ro/img/files/2017-2018/doctorat/docdrd/Contract_Studii_Doctorale_fara%20bursa_2017.pdf • fee: http://www.upt.ro/img/files/2017-2018/doctorat/docdrd/Contract_Studii_Doctorale_taxa_2017.pdf <p>Year 2016/2017 and year 2015/2016: contracts can be accessed at: http://www.upt.ro/Informatii_documentele-doctoranzilor-inmatriculati-in-periodo-2005-201_289_en.html</p>	
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		<p>Their format is word password protected file, so that doctoral students had the opportunity to fill in only the fields with personal data, without being able to make the changes on the framework of the contract.</p>	
	<p>d) the regulation for completing the studies, including the procedure for public defense of the thesis;</p>	<p>d) The regulation for completion of the doctoral studies is detailed in “Procedure for completion the doctoral studies and public defense of doctoral theses in UPT”,</p> <p>http://www.upt.ro/img/files/2018-2019/doctorat/HCA_nr71_06-2018_Instructiune_de_lucru_sustinere_publica.pdf</p> <p>The procedure for public defense of the doctoral thesis and the set up the doctoral file, used since 2016, is available at</p> <p>http://www.upt.ro/img/files/2015-2016/doctorat/Procuctura_scepere_te.pdf</p> <p>The procedure for completion the doctoral studies and public defense of the thesis HCA 5 / 15.01.2019 is publicly available at:</p> <p>http://upt.ro/img/files/2019-2020/doctorat/HCA_5_din_2019_Instructiune_de_lucru_sustinere_teze_doctorat.pdf</p> <p>In the current epidemiological context, for the online defense of doctoral theses, the “Procedure for online defense of doctoral theses in UPT is established for academic year 2019-2020” (HS no.111 / 14.05.2020),</p> <p>publicly available at:</p>	<p><i>fulfilled</i></p>

		<p>http://www.upt.ro/img/files/hs/2020/14.05.2020/HS_111_14.05.2020_Productura-sustinere-online-teze-doctorat.pdf</p> <p>Through HS 231 / 17.09.2020 the validity of the Procedure for the online defense of doctoral theses in UPT for the academic year 2020-2021 has been extended.</p> <p>publicly available at:</p> <p>http://upt.ro/img/files/2019-2020/doctorat/HS_231_17-09-2020_Prelungire_valabilitate_proced_sustinere_online_teze_doctorat.pdf</p>	
	<p>e) Content of the training programs based on advanced university studies;;</p>	<p>e) The information regarding the cross-curricular discipline, mandatory for all doctoral students, based on the advanced university training (first year of the doctoral studies program) is available at:</p> <ul style="list-style-type: none"> ● academic year 2017-2018: http://www.upt.ro/Informatii_cscs_419_ro.html, ● academic year 2018-2019: http://www.upt.ro/Informatii_eiaesdr_1075_ro.html, ● academic year 2019-2020: http://www.upt.ro/Informatii_eiaesdr-2019-2020_1682_ro.html. <p>The doctoral study program is customized for each doctoral student, at the proposal of the doctoral coordinator, regarding the master and / or tutorial</p>	<p><i>fulfilled</i></p>


		<p>courses from within the year of advanced university training, respectively from the doctoral research program.</p>	
	<p>f) academic and scientific profile, the thematic areas / research topics of the doctoral coordinators from the doctoral field, as well as their institutional contact data;</p>	<p>f) The offer of doctoral coordinators is updated annually and used in the admission process for doctoral studies:</p> <ul style="list-style-type: none"> • Admission 2019: http://www.upt.ro/img/files/2018-2019/admitere/doctorat/Oferta_conducatori_de_doctorat_2019.pdf • Admission 2018: http://www.upt.ro/img/files/2017-2018/admitere/doctorat/Oferte_conducatori_doctorat-2018.pdf • Admission 2017: http://www.upt.ro/img/files/2016-2017/admitere/doctorat/oferte/Oferte_conducatori_doctorat-2017.pdf • Admission 2016: http://www.upt.ro/img/files/2015-2016/admission/doctorat/oferte/Oferte_conducatori_doctorat-2016_ses_II.pdf • Admission 2015: http://www.upt.ro/img/files/2014-2015/admission/PhD/Oferte_ale_cond_de_doctorat_IOSUD_UPT_s1.pdf <p>contact details of the doctoral coordinators can be found at:</p> <p>http://upt.ro/img/files/carte-telefon/Carte_de_telefon_Angajati_2020.pdf</p> <p>and</p>	<p><i>fulfilled</i></p>


		http://www.upt.ro/img/files/2020-2021/doctorat/OMEN_conducator_doctorat_pe_domenii_2021.pdf	
	<p>g) list of doctoral students with the basic informations (year of registration; leader);</p>	<p>g) The list of doctoral students from the doctoral schooș can be found in the publicly available admission orders:</p> <ul style="list-style-type: none"> • for the year 2019-2020: http://www.upt.ro/img/files/2019-2020/doctorat/Lista_drd_inmatriculati_2019-2020_ordin_11474.pdf <p>and:</p> <p>http://www.upt.ro/img/files/2019-2020/doctorat/Lista_drd_inmatriculati_2019-2020_ordin_12410.pdf</p> <ul style="list-style-type: none"> • for the year 2018-2019: http://www.upt.ro/img/files/2018-2019/doctorat/Lista_dr_inmatr_2018-2019_sesiune_sept_ordin_120.pdf • for the year 2017-2018: http://upt.ro/img/files/2017-2018/doctorat/Lista_dr_inmatr_2017-2018_sesiune_sept_ordin_12866.pdf <p>and:</p> <p>http://upt.ro/img/files/2017-2018/doctorat/Lista_dr_inmatr_2017-2018_sesiune_oct-ordin_13940.pdf</p> <ul style="list-style-type: none"> • for the year 2016-2017: http://www.upt.ro/img/files/2016-2017/doctorat/docdrd/Doctoranzi_inmatriculati_2016-2017_Ordin_rector.pdf 	<p><i>fulfilled</i></p>

		<ul style="list-style-type: none"> • for the year 2015-2016: http://www.upt.ro/img/files/2015-2016/doctorat/Candidati_inmatriculati_2015-2016.pdf 	
	<p>h) information about the standards for editing the doctoral thesis;</p>	<p>h) The doctoral theses elaborated in IOSUD-UPT are published at the Politehnica Publishing House as the book, detailed at the following address:</p> <p>http://www.upt.ro/img/files/2014-2015/doctorat/editare_teza/Instructiuni_pentru_redactarea_tezelor_de_doctorat_Ed_Politehnica.pdf</p> <p>Moreover, the templates for the thesis preparation are available considering:</p> <ul style="list-style-type: none"> • Initial part (Romanian, English) • Thesis chapter • Details on editing the equations <p>that can be found at:</p> <p>http://www.upt.ro/Informatii_documentele-doctoranzilor-inmatriculati-incepand-cu-anul-201_286_en.html.</p> <p>In addition, the Politehnica University Timișoara ensures, from its own revenues, the publication of 25 copies of each doctoral thesis, in addition to the two copies that are sent to the Central Library of UPT, respectively to the National Library of Romania.</p>	<p><i>fulfilled</i></p>

	<p>i) information on opportunities for doctoral students aimed at attending conferences, publishing articles, awarding scholarships, etc .;</p>	<p>i) In the efforts to improve the academic and professional training of doctoral students and to stimulate research, including by finalizing and publishing doctoral theses, by Decision no. 32 / 07.11.2012, the Board of Directors of the Polytechnic University of Timișoara (UPT) launched the project <i>Increasing the quality of advanced scientific research in UPT</i>, in order to improve the visibility and the level of scientific research results, establishing research support grants from own revenues of the university. Following the analysis performed in 2015 on the efficiency of the research grant award 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.</p> <p>Considering the analysis of the results of the program carried out until the level of 2020 and identifying a series of changes necessary to increase the scientific production and its quality, the Board of Directors decided to continue the funding program through HCA no. 14 / 02.02.2021. The conditions for carrying out these programs and granting funding are specified at: http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Programul-de-finantare-ISI_27_ro.html.</p> <p>At the same time, the opportunities regarding the granting of scholarships, studies or internships are posted on the website of the Department of International Relations: http://www.upt.ro/international/Departamentu_Mobilitati_Si_Cooperari_Internationale_ro.html</p>	<p><i>fulfilled</i></p>
	<p>j) links to the abstracts of the doctoral theses to be defended publicly, as well as the date,</p>	<p>j) According to the procedure for public defense of doctoral theses in IOSUD-UPT, on the UPT website, doctoral studies section,</p>	<p><i>fulfilled</i></p>

	<p>time, location where they will be defended, at least 20 days before the defense.</p>	<p>announcements on public defense are posted, in Romanian and English (for each doctoral thesis), for example:</p> <ul style="list-style-type: none"> • 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_en.html • 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 commission can be found at: http://www.upt.ro/Informatii_teze-de-doctorat-sustinite-in-2020_1421_ro.html • The theses defended in 2019, with the details regarding the date, time, place where they were defended, the summary of the thesis, the public defense commission can be found at: http://www.upt.ro/Informatii_teze-de-doctorat-sustinite-in-2019_1164_ro.html • The theses defended in 2018, with the details regarding the date, time, place where they were defended, the thesis summary, the public defense commission can be found at: http://www.upt.ro/Informatii_teze-de-doctorat-sustinite-in-2018_939_ro.html • The theses defended in 2017, with details on the date, time, place where they were defended, the thesis summary, the public defense commission can be found at: http://www.upt.ro/Informatii_teze-de-doctorat-sustinite-in-2017_834_ro.html • The theses defended in 2016, with details on date, time, the place where they were defended, the summary of the thesis, the public defense 	
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<p>C.2.2. IOSUD / Doctoral School provides doctoral students an access to the resources needed to perform doctoral studies.</p>	<p>C.2.2.1. All doctoral students have free access to a platform with academic databases relevant to the field of doctoral studies in which they are completing their thesis.</p>	<p>C.2.2.1. All PhD students have free access, from any computer with IP on the UPT campus, to the electronic resources and databases of the UPT Central Library.</p> <ul style="list-style-type: none"> The Library databases can be accessed at: https://library.upt.ro/baze-de-date/ <p>or</p> <ul style="list-style-type: none"> Directly from the PRIMO search system module, by selecting Primo, Central Index and Subscribed Databases  <p>The library's subscribed databases are:</p>	<p><i>fulfilled</i></p>

		<p>Baze de date</p>  <p>Platforma de cercetare ScienceDirect ofera acces in text integral la reviste stiintifice de cercetare in format online, carti electronice, serii de carti si enciclopedii online. Peste 26% din informatia aparuta la nivel global in domeniile stiinte exacte si stiinte umaniste termosteg si medicina este publicata pe platforma Elsevier Science Direct. Este incontestabil, cea mai importanta resursa informationala de stiinta a unor noiastre si cuprinde revistele publicate de grupul editorial Elsevier (grupul de editura Elsevier, Churchill Livingstone, Saunders, Mosby, Cell Press, Pergamon, Butterworth-Heinemann, Academic Press, The Lancet, JAI Press, North Holland, Masson).</p> <p>Platforma SpringerLink ofera acces cu text integral la reviste stiintifice de cercetare in format online, fara al suport magnetic sau de hartie. Este una din cele mai utilizate resurse electronice de documentare stiintifice din lume si de la noi din tara. Infiintata in anul 1996, platforma SpringerLink a continuat sa evolueze in functie de nevoile cercetatorilor si in prezent contine peste 2.000 de titluri de reviste (fata de 1.501 in 2006), peste 160.000 de carti online, peste 4.400 serii de carti si 207 de lucrari de referinta online, peste 24.000 de profesorii, colectiile sale continand reviste de la cele mai mari edituri stiintifice din lume.</p> <p>Web of Knowledge este una dintre cele mai importante surse de documentare stiintifica la nivel mondial. Si cum este baza de date este de a citi informatii despre recunoasterea stiintifica a articolelor stiintifice si de identificare a noilor tendinte si tehnologii la nivel mondial. Web of Knowledge este autorizata tehnologic de catre evaluarea ISI a jurnalelor stiintifice, creat in colaborare cu prestigiosul Institute for Scientific Information din Philadelphia, SUA.</p> <p>IEEE Xplore[®] Digital Library ofera acces la mai mult de o treime din literatura din domeniul ingineriei si stiintei calculatoarelor din intreaga lume, punand la dispozitie materiale de foarte buna calitate de la Institute of Electrical and Electronics Engineers (IEEE) si Institute of Engineering and Technology (IET). Este o baza de date ideata pentru universitati, corporatii si agenti guvernamentale. Un abonament la IEEE/ET Electronic Library ofera acces la textul integral pentru toate revistele, ziarul, lucrurile si rapoartele de la diferite conferinte editate de IEEE, reviste si lucruri de la diverse edituri editate.</p> <p>Scopus este o baza de date bibliografica si bibliometrica in format online, cuercand reviste stiintifice, livrate prin intermediul internetului. Ofera acces la rezumatul articolelor stiintifice din peste 18500 de reviste stiintifice internationale publicate la peste 5000 de edituri internationale. Utilizeaza ca instrument de evaluare indicata Hirsch care permite evaluarea autorilor si institutiilor academice in baza raportului dintre articolele publicate si numarul de citari primite.</p> <p>Baza de date "Legis Plus" contine peste 35.000 de acte normative (legi, decrete, hotărâri, ordonante, ordine, criterii, norme, precizări, anexe, acte republicate) din anul 1910 și până în prezent (se actualizează odată cu apariția Monitorului Oficial).</p>	
	<p>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.</p>	<p>C.2.2.2. IOSUD-UPT has purchased the computer program <i>iThenticate</i> (http://www.ithenticate.com/) used to analyze the degree of similarity of the content of doctoral theses with other documents.</p> <p>In the final phase of the doctoral thesis, the Doctoral School, through the person specifically designated for similarity analysis, generates a similarity report with the <i>iThenticate</i> computer program. The similarity report is sent to the doctoral coordinator of the thesis.</p> <p>Such similarity reports can be generated, at the request of the doctoral student or doctoral coordinator, in different phases of elaboration of the doctoral thesis, or of the scientific papers associated with the doctoral research program.</p> <p>For the specific doctoral thesis, the doctoral coordinator elaborates a similarity report, associated by the report generated by the <i>iThenticate</i> as an annex.</p>	<p><i>fulfilled</i></p>

		Anexa C.2.2.2. presents examples of using the computer program for doctoral students in the IOSUD-UPT.	
	C.2.2.3. All doctoral students have access to scientific research laboratories or other facilities, depending on the particularities of the field / fields within the doctoral school, according to internal regulations.	<p>C.2.2.3. The doctoral studies contract, settled between IOSUD-UPT and each enrolled doctoral student, explicitly stipulates the obligations assumed by IOSUD-UPT regarding the access of doctoral students to the research infrastructure / facilities, as follows:</p> <ul style="list-style-type: none"> • Art.6.B.3 - to ensure the access of the doctoral student to the education and research infrastructure within the doctoral studies (Annex C.2.2.3. - Doctoral studies contract). <p>Depending on the specifics of the research laboratory, the doctoral student is trained in order to strictly follow the rules of labor protection and fire prevention and extinguishing.</p>	<i>fulfilled</i>
C.3. Degree of internationalization			
Standards	Performance indicators	Findings	Degree of fulfillment of the requirement <i>fulfilled / partially fulfilled / not fulfilled</i>

<p>C.3.1. IOSUD / Doctoral School has a strategy, and applies it, to increase the degree of internationalization of doctoral studies.</p>	<p>*C.3.1.1. IOSUD, for each doctoral school, has mobility agreements with foreign universities, with research institutes, with companies that carry out activities in the doctoral field, related to the mobility of doctoral students and teachers (for example, ERASMUS agreements for the doctoral study cycle). At least 35% of doctoral students have completed a training course abroad or another form of mobility, such as participation in international scientific conferences. IOSUD develops and implements policies and action plans aimed at increasing the number of doctoral students participating in training courses abroad, up to at least 20%, which is the target at the level of the European Higher Education Area.</p>	<p>*C.3.1.1.</p> <ul style="list-style-type: none"> ● In Annex C.3.1.1-1, the ERASMUS mobility agreements between UPT and foreign universities are presented. ● The ERASMUS mobility agreements between UPT and foreign universities can be found publicly at: http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Acorduri-bilaterale-Erasmus+_8_en.html ● The framework agreements between UPT and national or foreign universities can be found publicly at: http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Acorduri-cadru-de-cooperare-cu-universitati-din-tara-si-strainatate_31_ro.html ● Cooperation agreements with enterprises, associations and research centers can be found publicly at: http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Acorduri-de-cooperare-cu-intreprinderi,-asociatii-si-centre-de-cercetare_65_ro.html <p>IOSUD-UPT has the constant concerns for increasing the degree of internationalization of students, implemented through the Strategic Plan for the internationalization of the higher education (2015-2020 and 2021-2028 respectively):</p>	<p><i>fulfilled</i></p>
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[http://www.upt.ro/img/file/Proceduri/Strategy% 20for% 20Inter
nationalisation_UPT_2021_2028.pdf](http://www.upt.ro/img/file/Proceduri/Strategy%20for%20Internationalisation_UPT_2021_2028.pdf)

[http://www.upt.ro/img/file/Proceduri/Strategy_for internationalisati
on_UPT_2015_2020.pdf](http://www.upt.ro/img/file/Proceduri/Strategy_for_internationalisati
on_UPT_2015_2020.pdf)

In [Annex C.3.1.1](#), the lists of doctoral students from IOSUD-UPT who have completed mobility internships are presented.

IOSUD	Number of PhD students, existing at the time of evaluation from those enrolled between 2015-2019	Doctors number between 2016-2020	Number of PhD students who performed mobilities			Ratio (%) students who performed mobility / existing students and Doctors number
			ISI	Other mobilities	Erasmus	
IOSUD-UPT	453	138	233	97	30	60.91

→ CRITERION FULFILLED \geq 35%

C.3.1.2. IOSUD supports, including financially, the organization of doctorates in international co-supervision, respectively the invitation of high-ranking experts to give courses / lectures for doctoral students.

• **C.3.1.2.** During January 2016-December 2020, at the level of IOSUD UPT, 2 theses in international co-supervision were defended. At the level of IOSUD UPT, 2 international co-supervised theses were defended during this period. Currently in IOSUD - UPT there are 3 doctoral students whose thesis are co-supervised with foreign experts. The data are presented in detail in [Annex C.3.1.2-1](#). - The minutes of public defense of the doctoral theses co-supervised with foreign experts and the list of

fulfilled

		<p>doctoral students from IOSUD-UPT whose theses are co-supervised with foreign experts.</p> <ul style="list-style-type: none"> • Annex C.3.1.2-2. - presents the list of guests - senior experts who have given courses / lectures for doctoral students. • Annex C.3.1.2-3. - presents the list of the experts who gave courses / lectures for doctoral students as the outcome of mobility, through the program P1: Development of the national system of research - development Subprogram 1.1 - Human resources "Mobility projects for young researchers from diaspora". 	
	<p>* C.3.1.3. At least 10% of the doctoral theses within each doctoral school within IOSUD are written and / or presented in an international language or are co-written.</p>	<p>* C.3.1.3. In the period 2016-2020, 26 doctoral theses in English were written and presented out of a total of 138 defended theses (18.8%). (Annex C.3.1.3-1). Also, during the evaluation period, 2 co-supervised doctorates were organized and currently in IOSUD - UPT there are 3 doctoral students during the doctoral studies whose theses are in co-supervision with foreign experts. (Anexa C.3.1.2-1).</p>	<p><i>fulfilled</i></p>
	<p>C.3.1.4. The internationalization of doctoral studies activities is supported by IOSUD and other concrete measures (for example, participation in educational fairs to attract international doctoral students; inclusion of international experts in advising commissions or defense of doctoral theses, etc.).</p>	<p>C.3.1.4. The internationalization of activities is supported by: short-term mobility abroad of doctoral students, participation of doctoral students in summer schools, conferences and other events abroad (Annex C.3.1.1); inviting leading experts who have given courses and lectures in the UPT for doctoral students (Annex C.3.1.2-2. and Annex C.3.1.2-3.); informing the public and stakeholders regarding the doctoral field by posting on the <i>Study in Romania</i> platforms (Annex C.3.1.3-2.); increasing the degree of international visibility of doctoral supervisors and implicitly of the Doctoral School through relevant publications in the field, members of the scientific committees of international publications and conferences, members of the boards of international professional associations; invited</p>	<p><i>fulfilled</i></p>

		<p>to conferences or groups of experts held abroad, members of commissions to defend doctoral theses at top universities abroad (Annex C.3.1.4).</p> <p>For the internationalization of the activities within the doctoral school, IOSUD - UPT participated in various promotion missions, at educational fairs to attract international doctoral students, signed collaboration agreements with prestigious universities. Details can be found at:</p> <p>http://www.upt.ro/Informatii-utile_upt-la-conferinta-si-expozitia-anuala-nafsa-2019_385_ro.html</p> <p>http://www.upt.ro/Informatii-utile_firmele-italiene-vor-o-relatie-mai-stransa-cu-upt_351_ro.html</p> <p>http://www.upt.ro/Informatii-utile_ambasadorul-mexicului-la-upt_324_ro.html</p> <p>http://www.upt.ro/Informatii-utile_un-nou-acord-semnat-de-upt_344_ro.html</p> <p>http://www.upt.ro/Informatii-utile_un-nou-acord-international-semnat-de-upt_276_ro.html</p> <p>http://www.upt.ro/Informatii-utile_upt-a-semnat-un-acord-de-colaborare-cu-universitatea-din-ovi_229_ro.html</p> <p>http://www.upt.ro/Informatii-utile_reprezentantii-upt-la-aniversarea-tu-munchen_227_ro.html</p>	
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		<p>http://www.upt.ro/Informatii_useful-collaboration-agreement-between-upt-si-tu-graz_203_en.html</p> <p>http://www.upt.ro/Informatii-utile_parteneriat-upt---universitatea-khazar-azerbaidjan_121_en.html</p> <p>In Annex C.3.1.3, details are presented regarding doctoral theses defended in IOSUD - UPT in the period 2016-2020, having as references foreign experts.</p>	
C.4. The system of ensuring the fulfilment of the standards of ethics and academic integrity			
Standards	Performance indicators	Findings	The degree of fulfilment of the requirement <i>fulfilled / partially fulfilled / not fulfilled</i>
C.4.1. IOSUD / Doctoral School has a functional and efficient system for preventing and ensuring compliance with	C.4.1.1. IOSUD / Doctoral School implements the provisions of an ethics and deontology / academic integrity code, which defends the values of academic freedom and integrity, of university autonomy and has:	C.4.1.1. Issues related to ethics and academic integrity are regulated by the Code of Ethics and the Rules of Procedure of the University Ethics Commission, publicly available at the following address: http://www.upt.ro/Informatii_etica-si-deontologie_164_en.html	<i>fulfilled</i>

<p>ethical standards and academic integrity.</p>	<ul style="list-style-type: none"> - policies based on prevention regarding the possible violation of the code of ethics and integrity demonstrating this fact through public positions, studies, analyzes or measures. - practices and mechanisms for fraud prevention both from the institutional perspective and from the perspective of doctoral students; - practices for the prevention of possible fraud in its academic, research or any other activities, including active measures to prevent and eliminate any form of plagiarism, as well as to promote the principles of ethics and integrity or to respect intellectual property, copyright and related rights among all members of its academic community; - introduction of administrative measures to ensure the application of effective and eliminatory sanctions; 	<p>Aspects such as compliance of ethics by all members of the UPT academic community, the treatment of all complaints with objectivity and equidistance, the prevention of deviations from ethics and professional deontology are the attributions of the Ethics Commission within UPT.</p> <p>Active measures to prevent and eliminate any form of plagiarism are applied by using programs to verify textual similarities, such as <i>iThenticate</i> or <i>Turnitin</i>.</p> <p>The annual reports of the Ethics Commission within IOSUD-UPT, for the period 2016 - 2020, are published at:</p> <p>http://www.upt.ro/Informatii_etica-si-deontologie_164_en.html</p> <p>Also, the students have a representative in the Ethics Commission:</p> <p>http://www.upt.ro/Informatii_etica-si-deontologie_164_ro.html</p> <p>Last but not least, in the first year of the doctoral studies, within the advanced training program, the discipline <i>Ethics and academic integrity in scientific research and dissemination of results</i> is mandatory for all PhD students. The discipline deals with issues related to ethics and deontology in UPT.</p> <p>http://www.upt.ro/Informatii_eiacsdr-2019-2020_1682_en.html</p>	
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	<p>- mechanisms and measures to ensure equal opportunities and protection against intolerance and discrimination of any kind.</p> <p>IOSUD constantly monitors and evaluates these practices and can demonstrate their application to all activities and the involvement of students in all these processes, and the results of monitoring are made public annually or whenever necessary.</p> <p>IOSUD constantly monitors and evaluates these practices and can demonstrate their application to all activities and the involvement of students in all these processes, and the results of monitoring are made public annually or whenever necessary.</p>		
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	C.4.1.2. All the notifications regarding the suspicions of plagiarism related to some doctoral theses were analyzed and solved by IOSUD within the legal term provided for the expression of the written point of view regarding the received notification.	C.4.1.2. Within IOSUD-UPT there were no notifications regarding the suspicions of plagiarism related to some doctoral theses.	<i>fulfilled</i>
	C.4.1.3. The annual reports of the IOSUD Ethics Commission contain information on the status of each case in which there was a complaint or self-notification relevant to doctoral studies regarding the violation of certain rules and ethical issues.	C.4.1.3. The annual reports of the Ethics Commission within IOSUD-UPT, for the period 2016 - 2020, are published at: http://www.upt.ro/Informatii_etica-si-deontologie_164_en.html The annual ethics reports contain information on relevant notifications for doctoral studies.	<i>fulfilled</i>
	C.4.1.4. The measures taken by IOSUD following the final decisions of CNATDCU to withdraw the title of doctor following the plagiarism notifications concerned all the aspects provided in the CNADTCU decision and in the legislation in force	C.4.1.4. During the 2016-2020 reporting period within IOSUD-UPT, there were no final decisions of CNATDCU to withdraw the doctor's degree following the plagiarism notifications.	<i>fulfilled</i>
	C.4.1.5. The measures meant to prevent academic fraud within the	C.4.1.5. The measures adopted by the Doctoral School of Engineering Studies within IOSUD-UPT are found in the <i>Procedure of the Doctoral</i>	<i>fulfilled</i>

	<p>doctoral studies, adopted by IOSUD, can be:</p> <p>a) suspension of the right to coordinate new doctoral students, for a period of 3 years, in the case of doctoral coordinator who coordinated a doctoral thesis with final decision of withdrawal of the title of doctor for plagiarism;</p> <p>b) exclusion from IOSUD of the doctoral coordinator who coordinated at least two doctoral theses with a final decision to withdraw the doctoral degree for plagiarism;</p> <p>c) Suspension the admission process for a period of 2 years, if in the respective doctoral field was completed and defended a doctoral thesis with final decision to withdraw the doctoral degree for plagiarism.</p>	<p><i>School of Engineering Studies IOSUD-UPT regarding the settlement of anonym complaints regarding the non-observance of quality or professional ethics standards, including the existence plagiarism (Annex C.4.1.5.)</i></p>	
	<p>*C.4.1.6. Scientific references who have been part of the public defense commissions of two or more doctoral theses with a final decision</p>	<p>*C.4.1.6. During the 2016-2020 reporting period within IOSUD-UPT, there were no doctoral theses for which the CNATDCU commission should be notified with reference to plagiarism issues. Consequently, there were</p>	<p><i>fulfilled</i></p>

	<p>to withdraw the doctoral degree for plagiarism, have not been appointed to the public defense commissions for doctoral theses, for a period of at least 3 years.</p>	<p>no final decisions of CNATDCU to withdraw the doctor's degree following the plagiarism notifications.</p> <p>Therefore, for the 2016-2020 reporting period, none of the scientific references within IOSUD-UPT was involved in commissions for public defense of doctoral theses that would subsequently have a final decision to withdraw the doctorate for plagiarism.</p>	
	<p>C.4.1.7. IOSUD has a public database in which are indexed all doctoral theses defended in the institution since at least 2016 in a format that contains: field, author, doctoral supervisor, thesis title and doctoral thesis in electronic format (if there is the consent of the author).</p>	<p>C.4.1.7. IOSUD-UPT has a database of doctoral theses defended within the institution through the platform of the UPT Central Library which contains the field, author, doctoral supervisor, title of the doctoral thesis in electronic format.</p> <p>Also the doctoral theses within a period 2016-2020 are publicly available on the REI platform:</p> <p>https://rei.gov.ro/teze-doctorat06jhgfdsa</p>	<p><i>fulfilled</i></p>

Part III

3. STRATEGIES AND PROCEDURES IMPLEMENTED AT IOSUD-UPT LEVEL, AS A CONTINUOUS QUALITY IMPROVEMENT OF THE DOCTORAL PROGRAM, OTHER THAN THOSE MENTIONED IN ANNEX 4 TO GUIDE

Because IOSUD-UPT option of setting up a single doctoral school to manage all fields of doctoral studies, a unitary approach to the development of doctoral programs was possible, as a measure of continuous improvement of the quality of doctoral programs, with beneficial impact on certain quality standards for all doctoral fields accredited in IOSUD-UPT.

Consequently, assuming a minimum performance criterion for the public defense of doctoral theses, according to Art. 83 of RIODSUD-UPT, for the publication (or proof of acceptance for publication) of at least 2 scientific papers indexed Web of Science (ISI network) where the doctoral student has an explicit affiliation to the Politehnica University Timișoara, representing a first measure to improve the quality of doctoral studies in IOSUD - UPT.

The measure has been adopted in IOSUD-UPT since 2011, and since 2018, when at the national level the minimum standards for granting the doctoral degree were stipulated in OMEN 5110/2018, it remained valid in the situation where the conditions imposed by OMEN 5110/2018 are below the minimum UPT standard. The regulations can be found in the doctoral studies contract, signed by the doctoral student:

“The public defense of the doctoral thesis is conditioned by the fulfillment of the minimum national standards for granting the doctoral degree, corresponding to the doctoral field of the thesis (according to the Order of the Minister of Education no. 5110/2018), but not less than the minimum performance criterion of IOSUD UPT (according to Art. 83 of the Institutional Regulation for the organization and development of doctoral university study programs in UPT, no. 18874 / 16.12.2011). The minimum performance criterion of IOSUD UPT is the publication or acceptance for publication, under UPT affiliation of the doctoral student, of 2 (two) papers in scientific journals or procedures of scientific events indexed Web of Science, considering that at least one of the paper has the doctoral student as the first author.”

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*) but also an external, independent validation of their originality and scientific quality, as a measure that continuously improve the quality the programs of the doctoral studies.

As a result of this option assumed by IOSUD-UPT, all doctoral theses elaborated in IOSUD-UPT, were validated by the specialized commissions of CNATDCU (National Council for Attestation of University Degrees, Diplomas and Certificates), with the confirmation of the doctoral degree.

With the efforts that improves the academic and professional training of doctoral students and stimulates research, including by finalizing and publishing doctoral theses, by Decision no. 32

/ 07.11.2012, the Board of Directors of the Politehnica University Timișoara (UPT) has launched the project *Increasing the quality of advanced scientific research in UPT*, in order to improve the visibility and the degree of implementation of the scientific research results, establishing research support grants from own revenues of the university. Following the analysis performed in 2015 on the efficiency of the research grant award 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 respective financing program.

Considering the analysis of the program results, undertaken until 2020 and identifying a series of changes necessary to increase the scientific production and its quality, the Board of Directors decided to continue the funding program through HCA no. 14 / 02.02.2021. The conditions and procedure for carrying out these programs and granting funding are specified at: http://www.upt.ro/international/Mobilitati-Si-Cooperari-Internationale_Programul-de-finantare-ISI_27_ro.html. All working procedures related to these programs are described in the following documents:

- Procedure for obtaining a support grant for the participation in indexed scientific events Web of Science / Clarivate Analytics (ISI) of university assistants and doctoral students.
- Procedure for obtaining support grant for the publication of papers in journals indexed in Web of Science / Clarivate Analytics (ISI) with impact factor.
- Application for support grant type 1 - support grant in order to participate at the scientific events indexed in Web of Science / Clarivate Analytics (ISI).
- Application for cancellation grant type 1 - support grant in order to participate at the scientific events indexed in Web of Science / Clarivate Analytics (ISI).
- Application for support grant type 2 - in order to publish a paper in ISI-indexed journals with impact factor, support grant type 3 - for research and grant support type 4 – for additional funding.
- Application for the reimbursement of the part of the support grant in the UPT virtual account.
- Application for cancellation of approval / confirmation of support grant type 2 - in order to publish a paper in the ISI-indexed journals with impact factor, support grant type 3 - for research and support grant type 4 – for additional funding.

Through these HCAs, the constantly increasing financial support has been granted to doctoral students. In HCA no. 14 / 02.02.2021 it is specified that the total value of the support grants approved for a first author doctoral student is a maximum of 2400 EUR for the entire period of the doctoral studies. The support grant is up to EUR 500 for costs of publication in journals indexed in Web of Science (WOS) / Clarivate Analytics (ISI) with an impact factor (FI), $FI > 0.2$ and ranked, at the time of application, in Q3 or Q4, within the WOS / Clarivate Analytics ranking of the journals by specific field. The support grant is up to EUR 1200 that covers the publication costs in journals indexed in the Web of Science / Clarivate Analytics (ISI) with impact factor (FI) and ranked, at the date of application, in Q2 of the WOS / Clarivate Analytics ranking of the journals by specific field. Support grant of up to EUR 1800 for costs of publication in journals indexed in the WOS / Clarivate Analytics (ISI) with FI and ranked, at the date of application, in Q1 of the WOS / Clarivate Analytics ranking of the journals by specific field.

UPT offers, in terms of HCA no. 14 / 02.02.2021, the facility for the doctoral students in the case that the first paper published by a doctoral student, as the first author with a single affiliation to UPT, is in a scientific journal ranked Q1 or Q2, to receive an additional grant of 1800 EUR for journals Q1 or 1200 EUR for Q2 journals, cumulative with the author's other grants provided by the HCA. The grant is awarded only once to the doctoral student, either Q1 or Q2, the option being specifically mentioned in his award application. Once the grant for a Q1 or Q2 category has been approved, the applicant's option cannot be changed.

Considering the ISI papers published by doctoral students, after completing the regular term of the doctoral studies, doctoral students can obtain, for a period of one semester of extension, the scholarship from the UPT own income. These doctoral grants, related to the public defense of doctoral theses, are approved by HCA at the end of each academic year, following the requests submitted by the doctoral coordinators and approved by the Director of the Doctoral School. The data are public, at the following address: http://www.upt.ro/Informatii_documentele-doctoranzilor-inmatriculati-in-perioada-2005-201_289_en.html.

Moreover, in order to improve the academic and professional training of doctoral students and to stimulate research activities, an internal project was launched in UPT, to promote their own doctoral research at prestigious international conferences organized in / by UPT, http://www.upt.ro/img/file/Formulare%20si%20regulamente/ISI/Proiect_ConferintaUPT.pdf. This project has been undertaken in the period 2018-2019 and facilitated the participation of doctoral students at unindexed or late indexed conferences in Web of Science / Clarivate Analytics (ISI), to present results, receive useful feedback from participants, to interact and create contacts with other doctoral students and internationally recognized experts.

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_spartzen-for-doctoral-students-and-post-doctoral-researchers_998_en.html, financial support was provided to doctoral students based on projects. These individual projects were carried out in the period 2016-2018 and aimed to increase the number of university tertiary education graduates who find a job as a result of access to learning activities at a potential job / research / innovation, with a focus on the competitive economic sectors, identified in accordance with the National Strategy for Competitiveness (SNC) and the areas of smart specialization according to the National Strategy for Research, Development and Innovation (SNCDI). Consequently, the following results were obtained: the high participation rate of doctoral students in the internships within the newly established / developed partnerships in order to facilitate the insertion on the labor market after obtaining the doctoral diplomas; newly established / developed partnerships between UPT and the private sector and leading actors in the field of research and innovation.

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 MathWorks, used for algorithm design, statistical analysis, numerical calculation, interface creation. The software package contains over 100 additional components including the Simulink graphics 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 teaching and research and can be installed on both UPT and personal computing equipment.

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

- Matlab Documentation - provides a series of video tutorials and examples of use.
- Matlab Online - allows the use of Matlab and Simulink directly from the web client, without the need to install 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.

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 scholarship financed by MEN. Starting with the 2018/2019 academic year, UPT initiated the proper scholarship program for the doctoral students, financed from UPT's own resources, in the amount of 800 lei / month. They are granted, for each field of doctoral studies, in the order of the average grades obtained at the admission colloquium, according to the procedure established by CSUD.

If there is a doctoral student admitted to the position financed by the MEN without a scholarship, whose average grade is identical to the average grade of the last doctoral student who obtained a budgeted MEN position, the UPT's own income scholarship has the value of 1500 lei / month.

UPT's own income scholarships are awarded for the entire period of the doctoral studies.

The situation regarding the UPT's own income scholarships, granted for each academic year, is included in the enrollment order of the doctoral students. The data are publicly available at the following addresses:

http://upt.ro/img/files/2020-2021/doctorat/Ordinul_10932_din_2020_privind_inmatricularea_doctoranzilor.pdf
http://www.upt.ro/img/files/2019-2020/doctorat/Lista_drd_inmatriculati_2019-2020_.pdf
http://www.upt.ro/img/files/2018-2019/doctorat/Lista_dr_inmatr_2018-2019_sesiune_sept_ordin_12088.pdf

4. OTHER INFORMATION

Regarding the critical performance indicators (CPI), related to the periodic external evaluation of IOSUD-UPT, the situation is as follows:

A.1.2.2. The indicator is fulfilled.

IOSUD-UPT performed the verification of the similarity percentage in the doctoral theses elaborated starting with 2016, using the following computer programs, approved by MENCS acc. OM 3485/2016.

- *Plagiat.pl*, through the computer platform doct.edu.ro/doct of the Ministry of Education, between June 2016 and July 2017.
- *SemPlag*, through the platform uefiscdi-direct.ro/semplag/index.php, between August 2017 and September 2017.
- *iThenticate* (purchased by UPT) from October 2017 until now.
- [Annex A.1.2.2-1](#) includes the lists of doctoral students within IOSUD-UPT for which the computer programs for verifying the similarity percentage were used.
- [Annex A.1.2.2-2](#) examples of using the similarity software for doctoral students within IOSUD-UPT are presented.

A.3.1.2. The indicator is fulfilled.

The advanced university study programs, respectively the individual scientific research programs are managed mostly by tenured teachers as follows:

- The ratio of tenured doctoral supervisors is $75/137 \cdot 100 = 54.7\%$ in accordance with [Annex A.3.1.2-1](#).
- The ratio of tenured teachers in the advising commissions, which coordinates both advanced university study programs and individual scientific research programs is $281/359 \cdot 100 = 78.3\%$. ([Annex A.3.1.2-2](#).)

B.4.1.1. The indicator is fulfilled.

Within IOSUD-UPT there were no doctoral theses that required the reinstatement and resumption of the public defense procedure. Therefore, the percentage is 0%.

C.2.1.1. The indicator is fulfilled.

The Doctoral School of Engineering Studies within IOSUD-UPT published on the UPT website, in the section related to doctoral studies, http://www.upt.ro/Informatii_studii-universitare-de-doctorat_266_ro.html the updated information on: the regulation IOSUD / doctoral school; admission procedures; doctoral studies contract; the procedure for completing the studies, including the procedure for public defense of the doctoral thesis; the content of training programs based on advanced university studies; the academic and scientific profile, the thematic areas /

research topics of the doctoral supervisors, as well as their institutional contact data; list of doctoral students in the school with basic information (year of enrollment, doctoral coordinator); information about the elaboration standards of the doctoral thesis; information on opportunities for doctoral students aimed at attending conferences, publishing articles, awarding scholarships, etc.; links to the abstracts of the doctoral theses to be defended publicly, as well as the date, time, location where they will be defended, at least 20 days before the defense.

C.2.2.1. The indicator is fulfilled.

All doctoral students have free access, from any computer with IP in the UPT campus, to the electronic resources and databases of the UPT Central Library.

The databases owned by the Library can be accessed from the address:

- <https://library.upt.ro/baze-de-date/>

or

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



The library subscribed databases are:

Baze de date		
 <p>Platforma de cercetare ScienceDirect oferă acces în text integral la revista științifică de cercetare în format online, carti academice, carti de carti si enciclopedii tehnologie si medicina este publicata la nivel global în domeniile științe exacte și științe umaniste, tehnologie și medicina este publicata pe platforma Elsevier Science Direct. Este incontestabil, cea mai importanta resursa informationala academica a omeii noastre si cuprinde revistele publicate de grupul editorial Elsevier (grupul editural: Elsevier, Churchill Livingstone, Saunders, Mosby, Cell Press, Pergamon, Butterworth-Heinemann, Academic Press, The Lancet, JAI Press, North Holland, Masson).</p>	 <p>Platforma SpringerLink ofera acces cu text integral la revistele stiintifice de cercetare in format online, fara alt suport magnetic sau pe hartie. Este una din cele mai utilizate resurse electronice de documentare stiintifice din lume si de la noi din tara. Introdusa in anul 1996, platforma SpringerLink a continuat sa evolueze in functie de nevoile cercetatorilor si in prezent contine peste 2.500 de titluri de reviste (data de 1.5.1 în 2006), peste 100.000 de carti online, peste 4.000 serii de carti si 307 de lucrari de referinta online, peste 34.000 de procedee. Contine si cele mai importante reviste de la cele mai mari biblioteci stiintifice din lume.</p>	 <p>Web of Knowledge este una dintre cele mai importante surse de documentare stiintifica la nivel mondial. Scopul acestei baze de date este de a oferi informatii despre recunoasterea stiintifica a articolelor stiintifice si de identificare a noilor tendinte si tehnologii la nivel mondial. Web of Knowledge este autorizata exclusiv pentru evaluarea ISI si jurnalelor stiintifice, creat in colaborare cu prestigiosul Institute for Scientific Information din Philadelphia, SUA.</p>
 <p>IEEEET Electronic Library (IEL) ofera acces la mai mult de o treime din literatura din domeniul ingineriei si a stiintei calculatoarelor din intreaga lume, punand la dispozitie materiale de foarte buna calitate de la Institute of Electrical and Electronics Engineers (IEEE) si Institute of Engineering and Technology (IET). Este o baza de date ideata pentru universitati, corporatii si agentii guvernamentale. Un abonament la IEEEET Electronic Library ofera acces la textul integral pentru toate revistele, cartile, lucrurile si rapoartele de la diferite conferinte editate de IEEE, revistele si lucrurile de la societatea datorita editate.</p>	 <p>Scopus este o baza de date bibliografica si bibliometrica in format online, cuprinzand reviste stiintifice, livrată prin intermediul internetului. Ofera acces la rezumatul articolelor stiintifice din peste 18000 de reviste stiintifice internationale publicate la peste 5000 de edituri internationale. Utilizeaza ca instrument de evaluare indicile Hirsch care permite evaluarea autorilor si institutiilor academice in baza raportului dintre articolele publicate si numarul de citari primite.</p>	 <p>Baza de date "Legis Plus" contine peste 35.000 de acte normative (legi, decrrete, hotărâri, ordonante, ordine, criterii, norme, precizări, anexe, acte republicate) din anul 1910 și până în prezent. (se actualizează odată cu apariția Monitorului Oficial).</p>

Information resources on traditional form that are not found in the electronic catalog can be found in traditional library catalogs.

C.4.1.4. The indicator is fulfilled.

During the 2016-2020 reporting period within IOSUD-UPT, there were no final decisions of CNATDCU to withdraw the doctor's degree following the plagiarism notifications.

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