



External Evaluation Report (REE) for the procedure for obtaining Accreditation of a Doctoral Study Domain

Higher Education Institution/Education Provider Organization:	University of Oradea
Doctoral School:	Doctoral School of Engineering Sciences
Doctoral Domain:	Computers and Information Technology
The objective of the external evaluation:	Accreditation* (AC)

Members of the ARACIS Evaluation Panel

No.	Last Name and First Name	Team role	Signature
1.	Prof. univ. dr. eng. habil. Vasile MANTA	Coordinator/Expert evaluator	
2.	Prof. univ. dr. eng. habil. Gabor KISS	International Expert	
3.	drd. eng. Vlad Andrei STĂNESCU	PhD Student Evaluator	

I. Introduction

The report refers to the external evaluation of the field of doctoral studies Computers and Information Technology within IOSUD - University of Oradea.

Type of evaluation:

Evaluation for accreditation of the field of doctoral studies *Computers and Information Technology*, within IOSUD of the University of Oradea, carried out by ARACIS.

Evaluation period: July 24-26, 2025

Evaluation team:

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I.O.S.U.D.-The University of Oradea is a higher education institution accredited to organize doctoral studies in 21 doctoral fields, organized in 7 doctoral schools, both full-time and part-time. Doctoral degree programs operate in accordance with national legislation and meet the quality criteria imposed by national regulations. Details regarding the organization of doctoral studies can be viewed by accessing page <https://doctorat.uoradea.ro/ro>, and the related statistical situations are presented in the Annual Report of the Director of C.S.U.D., for the year 2024. Currently, within the University of Oradea there are 7 Doctoral Schools within the structure of the faculties that manage the 21 doctoral fields, <https://doctorat.uoradea.ro/ro/organizare/scoli-doctorale-conducatori-de-doctorat>.

The DOCTORAL SCHOOL (SD) OF ENGINEERING SCIENCES within which the field of *Computers and Information Technology will operate*, operates under this name starting with the academic year 2011-2012 (HS no. 170 of 12.09.2011 – Annex 11, according to ROFSUD, art.6, paragraph (3) – [ROFSUD, art.7, paragraph \(2\)](#)) [Annex 1](#)), organizing tuition at the doctoral university study cycle in the fundamental fields Engineering Sciences and Mathematics and Natural Sciences, doctoral fields: Agronomy, Electrical Engineering, Electronic Engineering, Telecommunications and Information Technologies, Energy Engineering, Industrial Engineering,

Engineering and Management, Mathematics, <https://doctorat.uoradea.ro/ro/organizare/scoli-doctorale-conducatori-de-doctorat/scoala-doctorala-de-stiinte-ingineresti> .

The University of Oradea, through the experience gained in carrying out bachelor's and master's degree programs in the field of *Computers and Information Technology*, has solid academic, human and material resources that support the extension of the educational offer to the doctoral cycle. The Council of the Faculty of Electrical Engineering and Information Technology requested through [Application no. 241 of 09.04.2025](#) the establishment of the doctoral field *Computer*

Science and Information Technology within the Doctoral School of Engineering Sciences, a request that was approved by the UO Senate through [HS no. 22 of 29.04.2025](#) position 14.

We mention that in the field of university studies *Computers and Information Technology* operates the master's degree in *Management in Information Technology* accredited by ARACIS, according to [the ARACIS Report 2059](#) of 13.04.2022

The doctoral supervisors who will work in the doctoral field *Computers and Information Technology* are:

Prof. univ. dr. habil. POPESCU Daniela Elena (OMEC no.5823 of 27.12.2017, holder)

Prof. univ. dr. habil. GYORODI Cornelia Aurora (OMEC no.3083 of 17.01.2025, holder)

Assistant Professor JURCUT Anca Delia (Recognition certificate no. 7427/09.04.2025 - associate)

On the date of the visit, 3 qualified doctoral supervisors are active.

II. Methods used

The methods and tools used in the external evaluation process, before, and during the evaluation visit were the following:

- Analysis of the Internal Evaluation Report of the *Computers and Information Technology* field and its annexes;
- Analysis of the documents in electronic format made available by IOSUD at the request of the evaluation commission;
- Analysis of documents, data and information available on the IOSUD website and the Doctoral School, in electronic format;
- On-site visit:
 - classrooms;
 - research laboratories in the field of *Computers and Information Technology*;
 - laboratories within the Department of *Computers and Information Technology*;
 - (general enumeration of the locations visited and the categories of persons with whom discussions were held);
 - research centers;
 - library of the institution.
- Analysis of the documents made available by IOSUD in physical format during the assessment visit;
- Meeting/discussions with the management of the Doctoral School/Schools in which the evaluated field of doctoral studies operates;
- Meeting/discussions with the doctoral supervisors in the field of doctoral studies evaluated;
- Meeting/discussions with representatives of various structures of IOSUD/School/Schools
- Doctoral programs in which the field of doctoral studies evaluated operates:
 - The Doctoral School Council, the Quality Assessment and Assurance Committee, the Quality Assurance Department, the Ethics Committee;
 - secretariats;

The entire team of experts participated in the of this Report.

The PhD student evaluator, Vlad Andrei STĂNESCU completed with his opinions on several indicators and drafted the Synthesis of the discussions with doctoral students from the DOCTORAL SCHOOL (SD) OF ENGINEERING SCIENCES, which he inserted in the Commission's Report.

During the period prior to the evaluation, an exchange of emails was held between all team members to clarify some aspects. The person in charge of the CTI field at the University of Oradea, Mrs. Prof. Dr. Ing. Cornelia Aurora Gyorodi, was also contacted for various clarifications.

III. Judgement on the extent to which the standards and performance indicators are fulfilled

DOMAIN A. Institutional capacity

Criterion A.1. Managerial and administrative structures and processes involving students and other stakeholders

Standard S.A.1.1. Organisational components and institutional processes

The HEI has organisational components in its structure, which function based on adequate competences, responsibilities, processes, and implementation procedures, and ensure an effective management system.

Indicator I.P.A.1.1.1	For delivering the study programme/domain, the HEI has adequate organisational components and an adequate management system, which operate based on methodologies, regulations and procedures that are periodically reviewed as required by law.
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From an institutional and managerial point of view, all aspects related to the adoption and implementation of specific regulations for doctoral schools are covered. The Doctoral School of Engineering Sciences has all the regulations, methodologies and procedures mentioned in this performance indicator, which are available online on the university's website (<https://doctorat.uoradea.ro/ro>). The regulations of the doctoral school are comprehensive and include criteria, procedures and mandatory standards according to the legislation in force.

There are specific regulations and they are applied at the level of the doctoral school to which the field of doctoral studies belongs:

- a) the regulations of the doctoral school;
- b) the methodology for conducting the elections for the position of director of the Doctoral School Council (CSD), as well as the students' election of the representative in the CSD, and evidence of their conduct;
- c) methodologies for organizing and conducting doctoral studies (admission of doctoral students, completion of doctoral studies);
- d) the existence of mechanisms for the recognition of the quality of doctoral supervisor and equivalence of the doctorate obtained in other states;
- e) functional management structures (Doctoral School Council), including proving the regularity of convening meetings;
- f) the doctoral university study contract;
- g) internal procedures for analysis and approval of proposals on the subject of the training program based on advanced university studies.

According to what is mentioned in the self-assessment report, the documents presented in the annexes and the findings of the meetings held during the visit, it follows that there are specific regulations for the activity of the Doctoral School of Engineering Sciences of the University of Oradea, which are as follows:

At the level of IOSUD-University of Oradea there are specific regulations for the organization and conduct of doctoral studies, these being developed in accordance with the provisions of the national legislation and are applied both at the level of IOSUD and of the doctoral schools. These regulations are published on the website of the University of Oradea and are visible by accessing the link Doctoral Studies – Regulations – National Regulations – Internal Regulations (<https://doctorat.uoradea.ro/ro/documente/reglementari/reglementari-interne>). The internal regulations that underpin the organization and conduct of activities within doctoral studies, also available on the IOSUD website <https://doctorat.uoradea.ro/ro/documente/reglementari/reglementari-interne>, are:

- a) The Regulation on the organization and conduct of doctoral studies at IOSUD_UO level, in force on the date of the internal evaluation, was adopted by the University Senate Decision number 11 of 26.09.2024, being available for consultation on the IOSUD website (<https://cloud.uoradea.ro/index.php/s/2gLz2TpR6EmDHdM>). The Regulation on the organization and conduct of doctoral studies at the level of the Doctoral School of Engineering Sciences was adopted by CSUD Decision and is available for consultation on the website of the SD of Engineering Sciences, (<https://doctorat.uoradea.ro/ro/documente/reglementari/reglementari-interne>).
- b) The methodology for organizing the elections and designating the members of the Council and the director of the Doctoral School of I.O.S.U.D. - University of Oradea (<https://www.uoradea.ro/display12788>), in force on the date of the internal evaluation, was adopted by the University Senate Decision number 23 of 28.10.2021 Annex 8, being available for consultation on the IOSUD website (<https://www.uoradea.ro/display24893>). The documents proving the conduct of the elections of the Doctoral School Councils and the elections/appointment of the Directors of the Doctoral Schools can be found at <https://doctorat.uoradea.ro/ro/despre1/conducere-csd>).
- c) The methodology for organizing and conducting the competition for admission to doctoral studies at the IOSUD_UO level, in force on the date of the internal evaluation, was adopted by the University Senate Decision number 12 of 28.03.2024, being available for consultation on the IOSUD website (<https://www.uoradea.ro/display32710>); The admission methodologies of the Doctoral Schools were adopted by Decision of the CSUD and are available for consultation on the IOSUD website (Admission methodology Doctorate IOSUD-UO - Doctorate University of Oradea (uoradea.ro)). The methodology regarding the admission and tuition of Romanians abroad to doctoral university studies starting with the academic year 2024 – 2025, in force on the date of the internal evaluation, was adopted by the University Senate Decision number 39 of 28.02.2024, being available for consultation on the IOSUD website (<https://cloud.uoradea.ro/index.php/s/DQKSmE2z7L4yy9t>). Methodology for the admission and schooling of foreign citizens starting with the academic year 2024-2025 in force on the date of the internal evaluation, was adopted by the University Senate Decision number 40 of 28.03.2024, being available for consultation on the IOSUD website (<https://cloud.uoradea.ro/index.php/s/btsWd57KPptAxox>);
- d) Operational procedure regarding the recognition of the doctoral degree and the title of doctor of science or in a professional field, obtained abroad, in force on the date of the internal evaluation, was adopted by the University Senate Decision number 13 of 31.10.2024, being available for consultation on the IOSUD website (<https://cloud.uoradea.ro/index.php/s/DHWsFg5tYiGdGns>);
- e) Operational procedure regarding the automatic recognition by the University of Oradea of the

quality of doctoral supervisor obtained in accredited university education institutions abroad, in force on the date of the internal evaluation, was adopted by the University Senate Decision number 11 of 25.09.2024, being available for consultation on the IOSUD website (<https://cloud.uoradea.ro/index.php/s/oiA8pqiqLsQix5Z>);

- f) Functional management structures (Doctoral School Council), including proving the regularity of convening meetings - as regards the organization of meetings at the level of the Doctoral School of Engineering Sciences, they are held as many times as necessary, but at least three times a year (<https://cloud.uoradea.ro/index.php/s/TepsFCfdF4Hrzpc>). The supporting documents are presented in [Annex 11](#).
- g) The Doctoral University Studies Contract - is Annex 1 to ROFSUD (<https://www.uoradea.ro/display17406>).

Also, at the level of IOSUD University of Oradea there are also the following internal regulations:

- a) Framework Regulation for granting scholarships and other forms of material support for students of the University of Oradea (<https://www.uoradea.ro/display22413>);
- b) Methodology regarding the exemption from the payment of the fee for the defense of the habilitation thesis, respectively of the reimbursement of the expenses occasioned by the defense of the habilitation thesis (<https://www.uoradea.ro/display6904>);
- c) Regulation on the occupation of fixed-term university assistant positions (<https://www.uoradea.ro/display22532>);
- d) Regulation regarding the organization and conduct of the process of obtaining the habilitation certificate at I.O.S.U.D. - University of Oradea (<https://cloud.uoradea.ro/index.php/s/nsSxj8tbeTpBiBE>);
- e) Regulation regarding the granting and revocation of the membership of the S.D. within IOSUD-UO (<https://www.uoradea.ro/display16171>);
- f) Methodology regarding the granting of doctoral scholarships at I.O.S.U.D. - University of Oradea (<https://www.uoradea.ro/display13987>).

The Regulation of the Doctoral School of Engineering Sciences within IOSUD University of Oradea, includes criteria, procedures and mandatory standards for the aspects specified in art.17, para. 5 of GD 681/2011 regarding the approval of the Code of Doctoral University Studies, with subsequent amendments and completions, as follows:

- a) the acceptance of new doctoral supervisor members, as well as regulations regarding the manner in which a doctoral supervisor can be withdrawn the membership of the doctoral school are regulated in the *Regulation on the granting and revocation of the membership of the Doctoral Schools, approved by Senate Decision 33 of 26.03.2018 Annex 16* (<https://www.uoradea.ro/display16171>);
- b) the mechanisms by which decisions are made regarding the opportunity, structure and content of the training program based on advanced university studies are provided in paragraph 3.2.3 (art. 31 and art. 32 respectively) of the *Regulation on the organization and conduct of doctoral studies and postdoctoral programs* (<https://www.uoradea.ro/display22980>);
- c) the procedures for changing the doctoral supervisor of a particular doctoral student and the conflict mediation procedures are regulated in art. 34 para.2, art. 38 and art. 27 respectively of the *Regulation*
- d) the ways of preventing fraud in scientific research, including plagiarism, are regulated in the *Code of Ethics and University Deontology of the University of Oradea* (<https://www.uoradea.ro/display23004>) and the sanctions in case of non-compliance with the standards of quality or professional ethics are provided in art. 77 of the *Regulation on the organization and conduct of doctoral studies and postdoctoral programs*

(<https://www.uoradea.ro/display27718>);

- e) ensuring access to research resources are regulated in art. 68 of the Regulation on the organization and conduct of doctoral studies and postdoctoral programs and respectively art. 6.1 IOSUD UO obligations of the Doctoral University Studies Contract – Annex 1 to the Regulation on the organization and conduct of doctoral studies and postdoctoral programs (<https://www.uoradea.ro/display27718>);
- f) the attendance obligations of doctoral students, according to a methodology developed by the Ministry of National Education, are established at the level of the Doctoral School (see art.9 [SD of Engineering Sciences](#))

At the level of the University of Oradea there are procedures for preventing academic fraud and for solving situations of violation of university ethics, including for the prevention and control of major frauds related to plagiarism and data fabrication. Thus, in [the Regulation on the organization and conduct of doctoral studies and postdoctoral programs](#), provisions on quality assurance within doctoral studies *are stipulated* in Chapter IV.

Also, one of the governing documents of the university is **the Code of Ethics and University Deontology** (<https://www.uoradea.ro/display20078>), which regulates the set of general moral standards, responsibilities and rules of mandatory university practice, which concern the activity and conduct of the members of the academic community in the educational and research activity. Its application is ensured by **the Research Ethics Commission at the University of Oradea**, (<https://www.uoradea.ro/display11640>) in accordance with the provisions **of the Working Procedure of the Research Ethics Commission** (<https://www.uoradea.ro/display22861>).

At the same time, in order to prevent and control frauds related to plagiarism at the level of IOSUD – University of Oradea, all doctoral and habilitation theses are verified by an anti-plagiarism software, which is in the list of programs recognized by CNATDCU and used at the level of higher education institutions organizing doctoral studies and of the Romanian Academy, in order to establish the degree of similarity for scientific works, in accordance with the MENCS Order no.3485/24.03.2016. Also, each doctoral student assumes the authenticity of the doctoral thesis, together with the scientific supervisor, by completing *the Declaration on the authenticity of the doctoral thesis* (<https://www.uoradea.ro/display15452>).

According to the legal regulations, there is at least one student representative in the commissions mentioned above, this being chosen by the doctoral students, but having a poorly known activity among the students who can participate in the voting process.

✓ **Recommendations:**

Increasing the level of transparency regarding the activity of student representatives from CSUD and CSD, by disseminating all information of interest to the community of doctoral students from the University of Oradea.

Updating the regulations for awarding scholarships and creating a minimum funding scheme for the research of each doctoral student.

Making all documentation relating to doctoral students available in English would encourage more foreign students to apply and thus further raise the university's profile.

The indicator is: fulfilled.

Standard S.A.1.2. Stakeholder engagement

The HEI proves that it engages the relevant stakeholders in developing methodologies and regulations, as well as implementation procedures.

Indicator
I.P.A.1.2.1

The opinions of the faculty and department members, of the subsidiary or extension* and of other stakeholders are considered in the process of adopting and revising methodologies, regulations and implementation procedures.

The requests of doctoral students are operationalized by the CSUD Secretariat and are taken into account and discussed at the CSD meetings to be included if a revision of the methodologies, regulations and application procedures is deemed necessary. In order to analyze these requests, a *Report on the needs and degree of satisfaction of the doctoral students* of the University of Oradea *Doctoral School of Engineering Sciences* is drawn up annually, which can be accessed at <https://cloud.uoradea.ro/index.php/s/dfa5QkHjMqcgJzS>.

✓ *Recommendations: There are no recommendations for this indicator.*

The indicator is: fulfilled.

Criterion A.2. The material resources and optimisation of the use of the material resources

Standard S.A.2.1. Material resources

The HEI owns adequate movable and immovable assets to enable it to carry out the study programme/domain.

Indicator
I.P.A.2.1.1

The HEI legally owns venues for the related education, research and administrative processes, as well as for services for students, doctoral students and trainees, thus providing an enabling environment for living and studying, including for disabled persons. Optimal venues are also provided for activities of the staff. Such venues are adequately equipped.

At the level of the Faculty of Electrical Engineering and Information Technology, which manages the doctoral field *Computers and Information Technology*, there are two internally certified research centers, namely *the Research Center for Information Technology, Electronics and Automation – CCTIEA*, respectively *the Center for Research and Technological Engineering in Electromagnetic Energy Conversion – CCITCEE*. Also, the goods within these centers are adequately maintained to ensure optimal working conditions. Additional information can be viewed by accessing the following link: <https://www.uoradea.ro/Centre+de+cercetare?structure=Managementul+cercetarii>. The research infrastructure of the laboratories is also publicly accessible in the ERRIS platform (<https://eeris.eu/ERIF-2000-000H-0559>, <https://eertis.eu/erso-2300-000I-2156>).

It should be noted that these research centers operate in appropriate spaces, located on the university campus, being equipped with modern, state-of-the-art equipment and facilities. There is also a series of 6 research laboratories that have been equipped within the project (*DigitalUO*)" 2022-2025 with state-of-the-art equipment, facilitating advanced research and innovation (*Table of Research Laboratories of the CTI Department* of REI). In addition to these rooms and laboratories, the Doctoral School of Engineering Sciences has additional corresponding rooms within the related research centers that can be made available to the CTI doctoral field, as this field will develop, depending on the needs of the doctoral supervisors, most of the research centers being interdisciplinary (*Table III.2. List of existing research laboratories at the Doctoral*

* The faculty, department, subsidiary, extension - hereinafter "organisational components"

School of Engineering Sciences of REI). IOSUD has computer devices and broadband Internet access that can be used by doctoral students and teaching staff, as well as specific computer programs.

There is free access to international databases through the ANELIS Plus program, with mobile access for students http://www.anelisplus.ro/?page_id=68. The new library headquarters, whose inauguration took place in 2010, has a usable area of 7650 sqm on the 5 levels of the building. These allowed the organization of collections by fields and specializations in the 5 reading rooms: 4 for books and 1 for periodicals (newspapers and magazines), with a total number of 520 seats and with the possibility of consulting publications in a system of free access to the shelf (<https://www.uoradea.ro/Biblioteca%20UO>).

Of the 6 research laboratories within the Department of Computer Science, 2 are coordinated by doctoral supervisors: Advanced Database Systems Laboratory, Expert System (V204) – prof. dr. eng. Cornelia Gyorodi and the Cybersecurity and Computing Architectures Laboratory (E111) - prof. dr. eng. Daniela Popescu. They have state-of-the-art equipment, but are especially suitable for teaching activities. More advanced equipment is also needed for research.

Recommendations: It is recommended to continue equipping with high-performance equipment, with adequate computing power for the major directions of interest within the CTI field: Artificial Intelligence, Cybersecurity, etc. This can also be achieved by winning several research grants.

The indicator is: fulfilled.

Standard S.A.2.2. Management of material resources

The organisational components manage the movable and immovable assets used for the evaluated study programme/domain in an optimal, sustainable manner.

Indicator I.P.A.2.2.1	The movable and immovable assets are properly maintained to ensure optimal conditions for studying, living and research, as well as for work.
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The spaces intended for doctoral studies – including seminar rooms, offices of doctoral supervisors, library, spaces dedicated to research – benefit from permanent maintenance, cleanliness, internet access and modern facilities. For the *field of Computers and Information Technology*, the infrastructure described in [Annex 9](#), [Annex 10](#), [Annex 12](#), Annex 17 will be used. The conditions offered ensure that activities are carried out in accordance with academic standards and the needs of doctoral students, teaching staff and administrative staff.

✓ *Recommendations: There are no recommendations for this indicator*

The indicator is: fulfilled.

Criterion A.3. Adequate human resources and transparent staff recruiting procedures developed according to the law

Standard S.A.3.1. Human resources

The HEI has the required human resources to organise and deliver the evaluated study programme/domain.

Indicator I.P.A.3.1.1	The human resources of the organisational component are suitable to perform the activities pertaining to the evaluated study programme/domain. The teaching staff has the required qualifications and professional competences to teach the subject matters assigned to them in the job list.
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The teachers who work in the doctoral field of *Computers and Information Technology* have the necessary qualifications and skills by meeting the minimum criteria of the CNATDCU standards in force ([Annex 3](#)), are doctoral supervisors in the field of CTI, have obtained the habilitation certificate or recognized within a doctoral school ([Annex 4](#)), being tenured members of the University of Oradea, respectively, associates ([Annex 13](#)). These are:

Prof. univ. dr. habil. POPESCU Daniela Elena (OMEC no.5823 of 27.12.2017, holder)

Prof. univ. dr. habil. GYORODI Cornelia Aurora (OMEC no.3083 of 17.01.2025, holder)

Assistant Professor JURCUT Anca Delia (Recognition certificate no. 7427/09.04.2025 - associate)

The applications of the teaching staff regarding the affiliation to the Doctoral School of Engineering Sciences who carry out their activity within the doctoral field *Computers and Information Technology* ([Annex 19](#)) were approved by [HS no. 22 of 29.04.2025](#), position 16.

The PhD supervisors in the field under evaluation have Web of Science indexed publications in journals with impact factor with relevant significance for the CTI field, having over 50 articles in ISI journals rated Q1/Q2 ([Annex 6](#) List of papers) in the last 5 years ([Annex 8](#)).

At the same time, the teaching staff who will carry out their activity within the doctoral school have a meritorious research activity recognized internationally, as evidenced by the significant number of citations in international databases (over 1000 citations each have separately according to Annex 7) as well as a participation as a member in the scientific committees of international publications and conferences as evidenced by their CVs (Annex 5). We mention that Assistant Professor JURCUT Anca Delia is in the top 2% of the best researchers in the world in the field of cybersecurity ([Proof top 2%](#)).

According to the data presented in the RAE, the subjects of the training program based on advanced university studies related to the field of *Computers and Information Technology* ([Annex 14](#)) are held by teachers or researchers who have the quality of doctoral supervisor/qualified professors or associate professors with proven expertise in the field of the subjects taught (Annex 16).

A risk factor is the fact that there are only 3 doctoral supervisors, the minimum provided by the indicator.

- ✓ **Recommendations:** *Increase the number of doctoral supervisors. It is recommended to support your own staff in obtaining the habilitation certificate*

The indicator is: fulfilled.

Standard S.A.3.2. Recruitment procedures

Teaching staff recruitment procedures compliant with the provisions of the law.

Indicator
I.P.A.3.2.1

Recruitment procedures comply with the provisions of the law, and are established and carried out transparently.

The UO organizes a competition for the occupation of teaching and research positions for an indefinite period only after the publication of the positions proposed for competition, by the relevant ministry, in the Official Gazette of Romania in accordance with [its own competition methodology for the occupation of vacant teaching and research positions](#). The competition for the occupation of the teaching positions of university assistant for a fixed period is organized in accordance with the [Regulation on the occupation of the positions of university assistant for a fixed period](#).

All the teaching positions put up for competition are found in the lists of functions of the specialized departments and are made public on the main page Competitions [for teaching](#)

[positions](#), so that candidates who comply with the regulations in force can participate in the competition without discrimination. The statements of functions are carried out in accordance with the [Operational Procedure regarding the elaboration and approval of the statements of functions](#).

Teaching and research positions cannot be put up for competition by transforming an occupied position into a position of higher rank.

- ✓ **Recommendations:** *There are no recommendations for this indicator.*

The indicator is: fulfilled.

Criterion A.4. Digitalisation of institutional processes

Standard S.A.4.1. Digital transformation

The digital transformation process in the organisational component seeks to achieve administrative simplification and improve the quality of the services provided to the members of its own community, as well as to third parties.

Indicator I.P.A.4.1.1	The organisational component uses IT tools in its own procedures, to improve access and provide good quality services for the members of its own community and the indirect beneficiaries of education.
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IOSUD-University of Oradea, responsible for the doctoral field Engineering Sciences, actively uses IT tools to improve the quality of services offered to members of the academic community. The digital platforms of the University of Oradea allow the online conduct of current administrative procedures – requests for certificates, forms for changes of thesis title or scientific supervisor, information on the timetable and activities within the advanced university training program. The communication between students, doctoral supervisors, the guidance committees and the Secretariat of the Doctoral School is done efficiently through institutional e-mail and through the dedicated websites of the faculty and of IOSUD (<https://doctorat.uoradea.ro>). At the level of the University and IOSUD UO, there is also implemented (the interface for students is available at <https://studinfo.uoradea.ro/>), the Uniweb platform (<https://uniweb.uoradea.ro/>) which provides the module for the management, monitoring and information about students, including doctoral students. The data from the files of the candidates for admission are entered into this program and following the selection process, the admitted candidates are enrolled at IOSUD-UO. This program has a module where statistical reports of doctoral students can be generated, a fee module where the situation of doctoral students' fees are highlighted.

IOSUD University of Oradea uses on the basis of a contract the anti-plagiarism system provided by SC SISTEM ANTIPLAGIAT PRIN INTERNET SRL through the online platform <https://www.sistemantiplagiat.ro>, iThenticate ([Annex 15](#)). The similarity detection system made available to the doctoral schools within IOSUD University of Oradea is included in the MENCS Order no. 3485/2016 - list of programs recognized by CNATDCU and used at the level of higher education institutions organizing doctoral studies and of the Romanian Academy, in order to establish the degree of similarity [Annex 15](#).

- ✓ **Recommendations:** *There are no recommendations for this indicator.*

The indicator is: fulfilled.

DOMAIN B. Educational efficacy

Criterion B.1. Content and relevance of study programmes

Standard S.B.1.1. Content of study programme/s*

The study programme is based on a curriculum designed so that students can acquire the expected learning outcomes.

Indicator I.P.B.1.1.1	The study programme is developed and structured according to the expected learning outcomes, and organised based on transferable study credits. It includes all learning, teaching, practical training, research and evaluation experiences, which, together, lead to a higher education qualification.
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The study program is based on a curriculum that is organized based on transferable credits. The curriculum (Annex 2) is drawn up in accordance with the provisions of the national legislation and the internal regulations of the University of Oradea, according to *the Operational Procedure for the Development and Approval of Curricula* (SEAQ-PO-PrMA-01) <https://www.uoradea.ro/di6splay12985>.

The Advanced University Training Program (PUA) is adequate and includes compulsory subjects, namely: Methodology of Scientific Research in the field of Engineering Sciences, Ethics and Academic Integrity in the field of Engineering Sciences, Artificial Intelligence in Engineering, as well as packages of optional subjects, relevant for training in scientific research in the field evaluated ([Annex 14](#)). Following the attendance of the activities in the Disciplines Offer, enrolled in the Training Program, doctoral students are required to obtain a number of 30 credits. The details of the activities (course, seminar, number of credits, etc.) are provided in the Subject Sheets ([Annex 14](#)), where the objectives of the disciplines, the basic thematic content, the evaluation system for doctoral students and the minimum bibliography are specified. The activities within the PUA are provided in a schedule made public at the beginning of the academic year.

The scientific research program consists of 3 scientific progress reports, in which scientific activities are also mentioned.

The training program based on advanced university studies is oriented towards learning outcomes. Doctoral students receive adequate guidance from both the doctoral supervisors and the members of the supervisory committees.

✓ **Recommendations:** *There are no recommendations for this indicator.*

The indicator is: fulfilled.

Criterion B.2. Alignment of the curriculum with the qualification

Standard S.B.2.1. Alignment with the qualification level and the intended competences

In the curriculum design and development process, the organisational component seeks to ensure the qualification level, as well as correlation with the envisaged occupations.

Indicator I.P.B.2.1.2	The expected learning outcomes are correlated with the competences required by those occupations, according to the occupational standards and/or the European Skills, Competences and Occupations (ESCO).
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* The term "programmes" concerns the external quality evaluation for the study programmes contained in a master/doctoral domain. The term "programme" shall be used hereinafter.

The curriculum for the field of *Computers and Information Technology (Annex 2)* was designed taking into account the national and internal regulations and the assurance of qualification and correlation with the targeted occupations, according [to the Operational Procedure Regarding the Fulfillment of Level 8 of Qualification](#) and has specified the competencies that are intended to be ensured through the curriculum. They are divided into *professional competences* and *transversal competences*, which are detailed in Annex 2 - Curriculum for the CTI field. In addition to these competences, the competences specific to each discipline, specified in the subject sheets (Annex 14), are also acquired.

- ✓ **Recommendations:** *There are no recommendations for this indicator.*

The indicator is: fulfilled.

Criterion B.3. Student-centred learning, teaching and evaluation

Standard S.B.3.1 Principles

The organisational component implements the principles of student-centred learning.

Indicator I.P.B.3.1.1	The organisational component ensures implementation of the student-centred learning in the curriculum and through the teaching strategies used in the learning and teaching activities and experiences.
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Teachers organize a stimulating learning environment, use modern teaching strategies, which facilitate the participation of students in the process of their own training. The didactic approach is based on the capitalization of interactive didactic strategies. Modern teaching-learning strategies ensure the development and capitalization of the cognitive, affective and actional resources available to students, enabling them to adapt and integrate optimally into the socio-professional environment. The teacher-student relationship is based on the model of a partnership relationship in order to achieve common goals. Student feedback is important and relevant in obtaining optimal results from the teaching process.

The subject sheets include objectives assumed in relation to the study program and the targeted qualification, target clear competences for which a coherent theoretical and applied scientific content has been provided, provide student-centered teaching, learning and evaluation methods in relation to learning outcomes, provide a bibliographic list, the forms, methods and criteria of evaluation, their weight, the recognition of progressive accumulations within the discipline and the way of grading students. The content and format of the course sheet is established by the "[System procedure regarding the initiation, approval, monitoring and periodic evaluation of study programs](#)" (Annex 14).

Each doctoral student is guided, in addition to the scientific supervisor (who has a Schedule of activities and consultations made public at the level of the doctoral school), by a guidance committee made up of 3 other teaching staff, having at least the title of doctoral lecturer, specialists in the doctoral field and the theme of the thesis. The activity of doctoral supervisors and members of the supervisory committees is regulated in the State of Functions of the doctoral school or in the State of Functions of the University Departments where the holders have the basic norm.

- ✓ **Recommendations:** *At least one member of the guidance committee should be from outside the university.*

The indicator is: fulfilled.

Criterion B.4. Accessibility and efficiency of the resources and support services, adequate for learning

Standard S.B.4.1. Access to resources and services	
The organisational component provides access to adequate resources and support services, according to the needs of the students.	
Indicator I.P.B.4.1.1	The organisational component provides students, including those with special educational needs/disabilities, with access to resources and services designed to support the learning process, adequate for the individual learning needs, the study domain, the study cycle, and the form of organisation of the study programme.

The University of Oradea pays special attention to supporting students with adaptation and learning difficulties or with disabilities ([Framework Regulation of the University of Oradea regarding accommodation in student dormitories](#), [Regulation for granting scholarships and other forms of material support for students of the University of Oradea](#)). At the level of the UO (within FSSU) there is an Office for students with visual impairments or blindness, established in collaboration with *the Traveling Book Foundation* and *Orange*, through which this category of students benefits from adapted courses (enlarged/transformed into Braille).

The Doctoral School of Engineering Sciences within the University of Oradea aims to ensure equitable opportunities for all doctoral students, promoting inclusion, equal access to resources and supporting academic progress regardless of their personal, social or economic conditions. It achieves this objective through a number of concrete measures and initiatives:

- *Equal access to educational and research resources*: PhD students benefit from open access to research infrastructure, modern laboratories, scientific databases and digital libraries.
- *Transparency in the admission and evaluation process*: Admission to the doctoral program is based on a clear and transparent Regulation, equally applicable to all candidates. Periodic evaluations of the progress of doctoral students are based on objective criteria, promoting meritocracy and academic integrity.
- *Financial support and mobilities for all PhD students*: Access to [national and international mobility programmes](#) (Erasmus+, [EU GREEN](#), etc.) is ensured fairly, through selection based on skills and scientific contributions, not on socio-economic status.

✓ **Recommendations:** *There are no recommendations for this indicator.*

The indicator is: fulfilled.

Criterion B.5. Learning outcomes

Standard S.B.5.1. Definition and evaluation	
Learning outcomes are adequately defined and evaluated.	
Indicator I.P.B.5.1.1	Learning outcomes are adequately described, and they support understanding of the students' and teachers' expectations regarding the content of the subject matters in the curriculum.

[The Operational Procedure regarding the evaluation and internal monitoring of doctoral schools/doctoral fields](#) within IOSUD_UO regulates the methods of evaluating the scientific activity of doctoral students within IOSUD-UO. The evaluation is carried out continuously, the doctoral supervisor carrying out the evaluation of the "learning outcomes" based on the way they fit into the individual work plan, during the doctoral internship, the research reports or lectures

made by them, the published articles and respectively their participation in conferences and research projects.

- ✓ **Recommendations:** *The courses syllabus should explicitly address the learning outcomes that doctoral students are expected to achieve.*

The indicator is: fulfilled.

Indicator I.P.B.5.1.2	Achievement of the learning outcomes is checked in ongoing examinations and study completion exams.
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The subject sheets of the doctoral university training program in the field of Computers and Information Technology ([Annex 14](#)) describe the evaluation and grading method as well as the requirements for the student's promotion. The disciplines are taught by professors who have the quality of doctoral supervisor/habilitated, professor or associate professor with proven expertise in the field of the subjects taught or other tenured professors who teach the disciplines also at the master's level ([Annex 16](#)). The [Operational Procedure for the Evaluation and Internal Monitoring of Doctoral Schools/Doctoral Fields](#) regulates aspects related to the evaluation of the training program based on advanced university studies of doctoral students.

- ✓ **Recommendations:** *There are no recommendations for this indicator.*

The indicator is: fulfilled.

Criterion B.7. Procedures and practices regarding the admission competition, the journey, recognition and equivalence of studies, and result certification

Standard S.B.7.1. Admission	
The admission procedures and principles ensure access to higher education.	
Indicator I.P.B.7.1.1	The organisational component applies the admission procedures..

At the level of IOSUD-UO there are methodologies for organizing and conducting the admission contest for doctoral university studies, in force, which were adopted by the University Senate Decision number 12 of 28.03.2024, (<https://www.uoradea.ro/display32710>).

- The admission methodologies of the Doctoral Schools were adopted by Decision of the CSUD ([Admission Methodology Doctorate IOSUD-UO - Doctorate University of Oradea \(uoradea.ro\)](#)).
- The methodology regarding the admission and schooling of Romanians abroad to doctoral university studies starting with the academic year 2024 – 2025, was adopted by the University Senate Decision number 39 of 28.02.2024, (<https://cloud.uoradea.ro/index.php/s/DQKSmE2z7L4yy9t>);
- The methodology on the admission and schooling of foreign citizens starting with the academic year 2024-2025, was adopted by the University Senate Decision number 40 of 28.03.2024, (<https://cloud.uoradea.ro/index.php/s/btsWd57KPptAxox>).

- ✓ **Recommendations:** *There are no recommendations for this indicator.*

The indicator is: fulfilled.

Indicator I.P.B.7.1.2	Admission in higher education study programmes complies with the principles of fairness and equal opportunities, and with the establishing of support measures to ensure access of vulnerable groups at social and educational risk, including candidates with special educational needs and/or disabilities.
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Admission to doctoral study programs at IOSUD-Oradea is based on selection criteria that include the principles of *equity and equal opportunities*, being regulated in the Methodologies for organizing and conducting the admission contest for doctoral studies at the level of the Doctoral Schools within IOSUD-University of Oradea, ([Doctoral admission methodology](#)).

At the level of the Doctoral School of Engineering Sciences, admission to doctoral study programs is based on selection criteria that include:

- Criterion 1 (30%) - Candidates' previous academic, research and professional performance (articles, studies mentioned in the CV) (30% of the evaluation);
- Criterion 2 (40%) - The level of the proposed doctoral research project (PCD), evaluated in relation to: C2.1 - The scientific context and motivation of the chosen topic (10%); C2.2 – Defining the objectives of scientific research (10%); C2.3 – Research methodology (10%); C2.4 – Estimated results (10%);
- Criterion 3 (30%) – The candidate's interest in scientific research, the way of presenting the project and the candidate's answers to the questions posed by the commission (30%).

Following the admission colloquium, each member present of the commission will give each candidate a grade (a whole number, between 1 and 10) for each evaluation criterion. The average awarded by each member of the commission is obtained as a weighted arithmetic average of the marks awarded for each evaluation criterion. The candidate's admission average is the arithmetic average of the averages resulting from the grades awarded by each member of the competition commission.

✓ **Recommendations:** *There are no recommendations for this indicator.*

The indicator is: fulfilled.

Standard S.B.7.2. Academic journey of students	
The organisational component carries out actions supporting the students' academic journey.	
Indicator I.P.B.7.2.1	The organisational component applies the regulations concerning the students' professional activity.

The Doctoral School of Engineering Sciences of the University of Oradea applies the regulations regarding the professional activity of doctoral students rigorously and in accordance with the national legislation in force, as well as with the internal regulations of the university ([Regulation on the organization and functioning of doctoral studies](#)). These regulations concern the conduct of research activities, participation in academic activities and the responsibilities assumed by doctoral students in their professional and scientific career ([Doctoral University Studies Contract](#)). Each doctoral student has an individual research plan, established together with the doctoral supervisor, which is evaluated annually by the Supervisory Committee and the Doctoral School Council. The professional activity of doctoral students is governed by the [Code of Ethics and University Deontology](#), and any misconduct (plagiarism, falsification of data, conflict of interest, etc.) is treated with the utmost seriousness. At the same time, in order to prevent and control frauds related to plagiarism at the level of IOSUD – University of Oradea, all doctoral and habilitation theses are verified by an anti-plagiarism software, which is in the list of programs recognized by CNATDCU and used at the level of higher education institutions organizing

doctoral studies and of the Romanian Academy, in order to establish the degree of similarity for scientific works, in accordance with the MENCS Order no.3485/24.03.2016, ([Annex 15](#)).

- ✓ **Recommendations:** *There are no recommendations for this indicator.*

The indicator is: fulfilled.

DOMAIN C. Quality management

Criterion C.3. Procedures for the initiation, monitoring and periodic review of the study programmes and domains and of the performed activities, involving students, employers and other stakeholders

Standard S.C.3.1. Procedures and implementation of procedures

The HEI has procedures for initiating, monitoring, and periodically reviewing the study programmes and domains and the performed activities, and applies them systematically.

Indicator I.P.C.3.1.1	The organisational component consistently applies the procedures, and proves their impact on quality assurance.
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The University of Oradea systematically and consistently applies [the Procedure regarding the initiation, monitoring and revision of study programs](#), thus ensuring the maintenance and improvement of the quality of the educational act. This procedure is managed at the level of the faculties, through their Councils and specialized departments, under the coordination of [the Department for Quality Assurance](#) (DAC), the [Board of Directors](#) and the [Senate of the University](#).

At the level of IOSUD, a procedure for evaluating and monitoring the evolution of doctoral schools/doctoral fields has been developed and is periodically applied ([Procedure for evaluating and monitoring the evolution of doctoral schools/doctoral fields](#)).

- ✓ **Recommendations:** *There are no recommendations for this indicator.*

The indicator is: fulfilled.

Indicator I.P.C.3.1.2	Members of its own community and other stakeholders are involved in the procedure implementation process.
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The University of Oradea maintains a *permanent dialogue* with students, teachers, graduates and representatives of the socio-economic environment in order to ensure an efficient and relevant review process of the study programs. The mechanisms through which stakeholders are involved include:

- Active representation of students in [the Council of the Doctoral School of Engineering Sciences](#) in [the UO Senate](#), in the [Board of Directors](#), in the [Central Commission for Quality Evaluation and Assurance](#) (CCEAC) and in other advisory structures, where they participate in decision-making regarding the improvement of the educational process;
- [Periodic meetings and debates](#) with employers, during which the skills necessary for insertion into the labor market are identified and adjustments to the curricula are proposed;
- Surveys and questionnaires applied to graduates, to assess the degree of satisfaction with the professional training received and its relevance in the career;

- [Collaboration with international educational institutions](#), through academic exchanges and adaptation of study programs to the requirements of the European Higher Education Area;
- [Partnerships with the economic environment](#), which offer students the opportunity to carry out internships and other forms of applied learning.

Through these mechanisms, the University of Oradea ensures a transparent and participatory process, in which all categories of stakeholders actively contribute to the continuous improvement of the quality of education.

The Doctoral School of *Engineering Sciences*, under the aegis of which the doctoral field *Computers and Information Technology* will operate, periodically holds meetings of the Doctoral School Council (CSD), during which the measures regarding the proper functioning of the doctoral programs are discussed and approved. The members of the CSD, the doctoral supervisors, the teaching staff involved in the guidance committees, as well as the representatives of the doctoral students actively participate in these decision-making processes. The supporting documents regarding the holding of the meetings within the CSD are in [Annex 11](#). Also, other stakeholders are involved through agreements and collaboration protocols concluded ([Annex 17](#)), providing access to documentary resources, support in research activity and contributions to the validation of the strategic directions of the Doctoral School of *Engineering Sciences* ([Annex 19](#)).

- ✓ **Recommendations:** *There are no recommendations for this indicator.*

The indicator is: fulfilled.

Criterion C.8. Participation in external evaluation processes, according to the law

Standard S.C.8.1. Compliance with the external evaluation obligation The HEI undergoes external quality evaluation as required by the law.	
Indicator I.P.C.8.1.1	The organisational component carries out the procedures pertaining to the external quality evaluation process, aiming to organise the evaluated study programme as provided by the law.

In order to accredit the doctoral study program in the field of *Computers and Information Technology*, the organizational component of IOSUD – University of Oradea, through the Doctoral School of Engineering Sciences, carried out all the steps provided by the ARACIS methodology regarding external quality assessment.

The process included the elaboration and submission of the Internal Evaluation Report (REI), prepared according to the new ARACIS requirements and the standardized structure, which includes detailed information on the human resource, infrastructure, mission and objectives of the program, institutional partnerships, quality procedures, as well as curricula. In parallel, all the necessary supporting documents (annexes, evidence, declarations) were collected and transmitted, ensuring the traceability and transparency of the process.

The entire activity was coordinated by the Doctoral School Council and CSUD, in collaboration with the quality assurance structure of the University of Oradea, in compliance with the legislation in force and national standards.

- ✓ **Recommendations:** *There are no recommendations for this indicator.*

The indicator is: fulfilled.

IV. SWOT Analysis

Strengths:		Weaknesses:
<ul style="list-style-type: none"> ✓ UO's "HIGH DEGREE OF CONFIDENCE" rating, reconfirmed in 2024. ✓ The diversity of the educational offer. ✓ Strong integration into the regional socio-economic environment. ✓ Modernized and constantly developing material base. ✓ Open and inclusive university, without discrimination. ✓ IOSUD – The University of Oradea has a consistent experience in organizing doctoral studies in 21 fields, through 7 doctoral schools, including the Doctoral School of History, active since 2000 as a field and since 2011 as a doctoral school. ✓ Well-regulated and functional organizational framework: there are functional structures (CSUD, CSD, SSUD) with clear roles in the management of doctoral studies, which ensure the consistent application of internal and national regulations ✓ The Doctoral School benefits from lecture halls and seminars, research laboratories, modern libraries and access to databases, essential resources for doctoral students' activities. ✓ The teaching staff and doctoral students of the Doctoral School are actively involved in the research activity, and the research results are published in BDI and ISI journals or at national/international conferences recognized in the field. ✓ Extensive interdisciplinary and applied research possibilities (AI, cybersecurity, IoT, etc.) ✓ Possibility of direct collaboration with the IT industry and the business environment. Companies in the IT&C field are constantly interested in innovation, applied research and 	<p>INTERNAL FACTORS</p> 	<ul style="list-style-type: none"> ✓ The need to increase international visibility, both in rankings and by attracting more international students. ✓ The need for more extensive digitization of administrative and educational processes. ✓ Human resource limited to three doctoral supervisors with habilitation in the field of Computers and Information Technology (CTI), and obtaining habilitations by the didactic staff in the respective CTI field took time. ✓ Low visibility at national and international level in the start-up stage, compared to established doctoral schools in large university centers. ✓ Funding through national or international grants is essential, but difficult to obtain in the early stages, without a previous competitive background.

<p>attracting human resources with advanced skills, including PhD students and postdoctoral researchers.</p>		
<p>SWOT analysis</p>		
<p>Opportunities:</p>		<p>Threats:</p>
<ul style="list-style-type: none"> ✓ Favorable geographical position. ✓ Expanding international collaborations. ✓ Increased interest from employers for graduates trained in applied and interdisciplinary fields. ✓ Strategic partnerships with the local administration and the business environment, ✓ Growing demand for PhDs in computer science in research and industry. The digital transformation of the economy and society generates a continuous need for specialists with advanced training in areas such as artificial intelligence, cloud, cybersecurity or data management. ✓ The PhD in CTI allows the approach of common themes with other fields: medicine (e-health), education (edtech), economics (fintech), industry (automation), engineering (robotics), and this aspect increases the attractiveness of the program for candidates from several specializations and facilitates access to multidisciplinary projects. ✓ The possibility to create centers of excellence or innovation networks in partnership with the private sector. ✓ Access to national and European funding sources through programs such as PNRR, Horizon Europe, Digital Europe offers the possibility of attracting funds for infrastructure, doctoral scholarships, internships and research projects 	 <p>EXTERNAL FACTORS</p>	<ul style="list-style-type: none"> ✓ Demographic decline and reduction in the number of high school graduates. ✓ Increasing competition between universities, both nationally and internationally. ✓ The impact of climate change and geopolitical instability. ✓ Insufficient public funding for doctoral research. ✓ Migration of highly qualified human resources to the private sector or outside the country. ✓ Frequent changes in national regulations on doctoral education.

V. Extent to which the standards and performance indicators are fulfilled, and recommendations

No.	Performance Indicator	Extent to which it was fulfilled (F/PF/UF)	Recommendations
DOMAIN A. Institutional capacity			
1.	I.P.A.1.1.1 For delivering the study programme/domain, the HEI has adequate organisational components and an adequate management system, which operate based on methodologies, regulations and procedures that are periodically reviewed as required by law.	Fulfilled	<p><i>Increasing the level of transparency regarding the activity of student representatives from CSUD and CSD, by disseminating all information of interest to the community of doctoral students from the University of Oradea.</i></p> <p><i>Updating the regulations for awarding scholarships and creating a minimum funding scheme for the research of each doctoral student.</i></p> <p><i>Making all documentation relating to doctoral students available in English would encourage more foreign students to apply and thus further raise the university's profile.</i></p>
2.	I.P.A.1.2.1 The opinions of the faculty and department members, of the subsidiary or extension and of other stakeholders are considered in the process of adopting and revising methodologies, regulations and implementation procedures.	Fulfilled	<p><i>There are no recommendations for this indicator.</i></p>
3.	I.P.A.2.1.1 The HEI legally owns venues for the related education, research and administrative processes, as well as for services for students, doctoral students and trainees, thus providing an enabling environment for living and studying, including for disabled persons. Optimal venues are also provided for activities of the staff. Such venues are adequately equipped.	Fulfilled	<p><i>It is recommended to continue the endowment with high-performance equipment, with adequate computing power for the directions of major interest within the CTI field: Artificial Intelligence, cybersecurity, etc. This can also be achieved by winning several research grants.</i></p>
4.	I.P.A.2.2.1 The movable and immovable assets are properly maintained to ensure optimal conditions for studying, living and research, as well as for work.	Fulfilled	<p><i>There are no recommendations for this indicator.</i></p>
5.	I.P.A.3.1.1 The human resources of the organisational component are suitable to perform the activities pertaining to the evaluated study programme/domain. The teaching staff has the required qualifications and professional competences to teach the subject matters assigned to them in the job list.	Fulfilled	<p><i>Increase in the number of doctoral supervisors. It is recommended to support your own staff in obtaining the habilitation certificate.</i></p>
6.	I.P.A.3.2.1 Recruitment procedures comply with the provisions of the law, and are established and carried out transparently.	Fulfilled	<p><i>There are no recommendations for this indicator.</i></p>
7.	I.P.A.4.1.1 The organisational component uses IT tools in its own procedures, to improve access and provide good quality services for the members of its own community and the indirect beneficiaries of education.	Fulfilled	<p><i>There are no recommendations for this indicator.</i></p>

No.	Performance Indicator	Extent to which it was fulfilled (F/PF/UF)	Recommendations
DOMAIN B. Educational efficacy			
8.	I.P.B.1.1.1 The study programme is developed and structured according to the expected learning outcomes, and organised based on transferable study credits. It includes all learning, teaching, practical training, research and evaluation experiences, which, together, lead to a higher education qualification.	Fulfilled	<i>There are no recommendations for this indicator.</i>
9.	I.P.B.2.1.2 The expected learning outcomes are correlated with the competences required by those occupations, according to the occupational standards and/or the European Skills, Competences and Occupations (ESCO).	Fulfilled	<i>There are no recommendations for this indicator.</i>
10.	I.P.B.3.1.1 The organisational component ensures implementation of the student-centred learning in the curriculum and through the teaching strategies used in the learning and teaching activities and experiences.	Fulfilled	<i>At least one member of the steering committee must be from outside the university.</i>
11.	I.P.B.4.1.1 The organisational component provides students, including those with special educational needs/disabilities, with access to resources and services designed to support the learning process, adequate for the individual learning needs, the study domain, the study cycle, and the form of organisation of the study programme.	Fulfilled	<i>There are no recommendations for this indicator.</i>
12.	I.P.B.5.1.1 Learning outcomes are adequately described, and they support understanding of the students' and teachers' expectations regarding the content of the subject matters in the curriculum.	Fulfilled	<i>Subject sheets should explicitly address the learning outcomes that PhD students are expected to achieve.</i>
13.	I.P.B.5.1.2 Achievement of the learning outcomes is checked in ongoing examinations and study completion exams.	Fulfilled	<i>There are no recommendations for this indicator.</i>
14.	I.P.B.7.1.1 The organisational component applies the admission procedures.	Fulfilled	<i>There are no recommendations for this indicator.</i>
15.	I.P.B.7.1.2 Admission in higher education study programmes complies with the principles of fairness and equal opportunities, and with the establishing of support measures to ensure access of vulnerable groups at social and educational risk, including candidates with special educational needs and/or disabilities.	Fulfilled	<i>There are no recommendations for this indicator.</i>
16.	I.P.B.7.2.1 The organisational component applies the regulations concerning the students' professional activity.	Fulfilled	<i>There are no recommendations for this indicator.</i>
DOMAIN C. Quality management			
17.	I.P.C.3.1.1 The organisational component consistently applies the procedures, and proves their impact on quality assurance.	Fulfilled	<i>There are no recommendations for this indicator.</i>
18.	I.P.C.3.1.2 Members of its own community and other stakeholders are involved in the procedure implementation process.	Fulfilled	<i>There are no recommendations for this indicator.</i>
19.	I.P.C.8.1.1 The organisational component	Fulfilled	<i>There are no recommendations for this</i>

No.	Performance Indicator	Extent to which it was fulfilled (F/PF/UF)	Recommendations
	carries out the procedures pertaining to the external quality evaluation process, aiming to organise the evaluated study programme as provided by the law.		<i>indicator.</i>

Summary Table of Performance Indicators – Degree of Fulfillment

Evaluation Domain	Number of Performance Indicators		
	Fulfilled	Partially fulfilled	Unfulfilled
Domain A. Institutional capacity	7	-	-
Domain B. Educational efficacy	9	-	-
Domain C. Quality management	3	-	-
Total	19	-	-

Recommendations for improving situations highlighted by weaknesses in the analysis

SWOT:

- encouraging professors with notable research results to defend their habilitation theses in order to become doctoral supervisors;
- continuing and increasing efforts for internationalization, capitalizing on existing Erasmus agreements and establishing new agreements with internationally prestigious universities;
- attracting funds from research grants that, subsequently, will favor the attraction of doctoral students and at the same time contribute to the research infrastructure appropriate to the new challenges in the CTI field.

VI. Conclusions

In conclusion, following the evaluation carried out, we find that DSUD Computers and Information Technology of IOSUD University of Oradea is a young structure, with a good organization, with a human resource that is still limited, but of quality, having a body of doctoral supervisors with multivalent applied research potential, an adequate material base and a good relationship of collaboration with the specialized economic environment.

Following the evaluation of the doctoral field of study Computers and Information Technology within the University of Oradea, the commission of expert evaluators finds that all the necessary indicators are met and PROPOSE the accreditation of the doctoral field of Computers and Information Technology at IOSUD-University of Oradea.

VII. Annexes

*Calendarul vizitei de evaluare externă a calității
 domeniului de studii universitare de doctorat / The timetable for the evaluation of the external quality evaluation visit
 for the doctoral university study domain*

*Instituția de învățământ superior/Organizația furnizoare de educație/ Higher Education Institution / Education Provider Organization:
 Universitatea din Oradea/ University of Oradea*

Școala doctorală/ Doctoral School: Școala Doctorală (SD) de Științe Inginerești/ Doctoral School of Engineering Sciences

Domeniul de doctorat/ Doctoral Domain: Calculatoare și Tehnologia informației/ Computers and Information Technology

Obiectivul evaluării externe/ The objective of the external evaluation: Acreditare/ Accreditation

Perioada vizitei de evaluare/ The evaluation period: Iulie/July 24-26, 2025

Comisia de experți evaluatori ai ARACIS/Evaluation panel:

<i>Nr./No.</i>	<i>Numele și prenumele/ Last Name and First Name</i>	<i>Calitatea/Team role</i>
1.	<i>Prof. univ. dr. eng. habil. Vasile MANTA</i>	<i>Membru Coordonator- Cadru didactic RNE/ Coordinator Member - RNE Teaching Staff</i>
2.	<i>Prof. univ. dr. eng. habil. Gabor KISS</i>	<i>Membru - Evaluator internațional RNE-I / Member - RNE-I International Evaluator</i>
3.	<i>Drd. eng. Vlad Andrei STĂNESCU</i>	<i>Membru - Student doctorand RNE-S/ Member - PhD Student RNE-S</i>

Reprezentantul ÎÎS/OFE:

<i>Nr./No.</i>	<i>Numele și prenumele/ Last Name and First Name</i>	<i>Calitatea/Team role</i>
1.	<i>Prof. univ. dr. eng. habil. Constantin BUNGĂU</i>	<i>Rector</i>
2.	<i>Prof. univ. dr. eng. habil. Radu-Cătălin ȚARCĂ</i>	<i>Director CSUD/Director CSUD</i>
3.	<i>Prof. univ. dr. eng. habil. Cornelia Aurora Gyorodi</i>	<i>Persoană de contact/Contact person</i>



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Intervalul orar/ Hour	Activități de evaluare/ Evaluation activities	Participanți/ Participants	Locație/Location /Listă participanți/List of Participants
Joi/ Thursday, 24.07.2025			
8:30-9:00	Discuții tehnice în cadrul comisiei de experți în evaluarea externă a calității/ Technical discussions within the expert committee for external quality evaluation	- Comisia de experți evaluatori ai ARACIS/ Panel members	Sala/Locația/ Room/Location E111/ Clădirea E/ Room E111/ Building E - Prof.univ.dr.habil. Cornelia Aurora Gyrodi - Persoană de contact/Contact person
9:00-9:40	Întâlnirea comisiei de experți în evaluarea externă a calității cu reprezentanții conducerii componentei organizatorice/ Meeting of the external quality evaluation experts' panel with the representatives of the management of the organisational component	- Comisia de experți evaluatori ai ARACIS/ Panel members - Reprezentanți ai conducerii componentei organizatorice aferente domeniului de studii de doctorat evaluat/ Representatives of the management of the organisational component - Persoana de contact/ Contact person	Sala/Locația/ Room/Location Clădirea A, A001, Decanat IETI/ Building A, A001, IETI Dean Office Lista persoanelor care vor participa la întâlnire/ List of participants attending the meeting: - [REDACTED] - Decan Facultatea de Inginerie Electrică și Tehnologia Informației (IETI)/ Dean IETI - [REDACTED] - Prodecan Facultatea de Inginerie Electrică și Tehnologia Informației (IETI)/ Vice Dean IETI - [REDACTED] - Director Departament Calculatoare și Tehnologia Informației (CTI)/ Director, Department of Computers and Information Technology

Intervalul orar/ Hour	Activități de evaluare/ Evaluation activities	Participanți/ Participants	Locație/ Location /Listă participanți/ List of Participants
			<p>- [redacted] – cadru didactic CTI/ CTI teaching staff</p> <p>- [redacted] – cadru didactic CTI/ CTI teaching staff</p> <p>- [redacted] - Persoană de contact/Contact person</p>
9:40-10:30	<p>Întâlnirea comisiei de experți evaluatori în evaluarea externă a calității cu echipa care a realizat raportul de evaluare internă (REI)/ Meeting of the external quality evaluation experts' panel with the team that has drafted the internal evaluation report</p>	<p>- Comisia de experți evaluatori ai ARACIS/ Panel members</p> <p>- Echipa care a realizat REI/ Team that has drafted the IER</p>	<p>Sala/Locația/ Room/Location E111/ Cladirea E/ Room E111/ Building E</p> <p>Lista persoanelor care vor participa la întâlnire/ List of participants attending the meeting:</p> <p>- [redacted] - Director Departament Calculatoare și Tehnologia Informației (CTI)/ Director, Department of Computers and Information Technology</p> <p>- [redacted] – cadru didactic CTI/ CTI teaching staff</p> <p>- [redacted] – cadru didactic CTI/ CTI teaching staff</p> <p>- [redacted] - Persoană de contact/Contact person</p>
10:30-11:20	<p>Întâlnirea comisiei de experți în evaluarea externă a calității cu reprezentanți ai</p>	<p>- Comisia de experți evaluatori ai ARACIS/ Panel members</p>	<p>Sala/Locația/ Room/Location Cladirea bibliotecii, et.4, Sala 420/</p>



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	<p>structurilor organizatorice ai școlilor universitare de doctorat/ <i>Meeting of the external quality evaluation experts' panel with representatives of the organisational structures of doctoral schools</i></p>	<p>- Reprezentanți ai structurilor organizatorice din școlile universitare de doctorat, Directorul Consiliului Studiilor Universitare Doctorale (CSUD), Directorul Școlii Doctorale de Științe Inginerești (SDSI) / <i>Representatives of organizational structures in doctoral university schools, Director of the Doctoral University Studies Council (CSUD), Director of the Doctoral School of Engineering Sciences (SDSI)</i></p>	<p>Library Building, 4th floor, Room S420</p> <p><i>Lista persoanelor care vor participa la întâlnire/ List of participants attending the meeting:</i></p> <ul style="list-style-type: none"> - [redacted] - Director CSUD/Director CSUD - [redacted] Director SDSI/Director SDSI - [redacted] - Director Departament Calculatoare și Tehnologia Informației (CTI)/ Director, Department of Computers and Information Technology - [redacted] - cadru didactic CTI/ CTI teaching staff - [redacted] - cadru didactic CTI/ CTI teaching staff - [redacted] - Persoană de contact/Contact person
11:20-11:30	<p><i>Pauză/ Break</i></p>		
11:30-12:00	<p><i>Întâlnirea comisiei de experți în evaluarea externă a calității cu reprezentanți ai</i></p>	<p><i>Reprezentanți ai structurilor organizatorice din școlile universitare</i></p>	<p><i>Sala/Locația/ Room/Location Cladirea bibliotecii, et.4, Sala 422/</i></p>

Intervalul orar/ Hour	Activități de evaluare/ Evaluation activities	Participanți/ Participants	Locație/Location /Listă participanți/List of Participants
	<p>structurilor organizatorice ai școlilor universitare de doctorat, Secretariat Școală doctorală SISD/ Meeting of the external quality evaluation experts' panel with representatives of the organisational structures of doctoral schools, SISD Doctoral School Secretariat</p>	<p>de doctorat, Secretariat Școală doctorală SISD/ Representatives of organizational structures in doctoral university schools, SISD Doctoral School Secretariat</p>	<p>Library Building, 4th floor, Room S422</p> <p>Lista persoanelor care vor participa la întâlnire/ List of participants attending the meeting:</p> <ul style="list-style-type: none"> - ██████████ – Secretară Școală doctorală de Științe Inginerești / Secretary Doctoral School of Engineering Sciences - ██████████ - Director Departament Calculatoare și Tehnologia Informației (CTI)/ Director, Department of Computers and Information Technology - ██████████ - Persoană de contact/Contact person
<p>12:00 - 12:30</p>	<p>Întâlnirea comisiei de experți în evaluarea externă a calității cu reprezentanți ai structurilor organizatorice în domeniul asigurării calității/ Meeting of the external quality evaluation experts' panel with representatives of the quality assurance organisational structures</p>	<p>- Comisia de experți evaluatori ai ARACIS/ Panel members</p> <p>- Reprezentanți ai structurilor organizatorice în domeniul asigurării calității/ Representatives of quality assurance organisational structures</p>	<p>Sala/Locația/ Room/Location</p> <p>D305/Clădire Rectorat/D305/ Rectorat Building</p> <p>Lista persoanelor care vor participa la întâlnire/ List of participants attending the meeting:</p> <ul style="list-style-type: none"> - ██████████ - Director Departament pentru Asigurarea Calității/ Director of Quality Assurance Department - ██████████ -

Intervalul orar/ Hour	Activități de evaluare/ Evaluation activities	Participanți/ Participants	Locație/Location /Listă participanți/List of Participants
			<p>Prorector responsabil cu Managementul Calității și servicii administrative/ Vice-Rector responsible for Quality Management and Administrative Services</p> <ul style="list-style-type: none"> - [REDACTED] - Director Departament Calculatoare și Tehnologia Informației (CTI)/ Director, Department of Computers and Information Technology - [REDACTED] - - cadru didactic CTI/ CTI teaching staff - [REDACTED] - [REDACTED] - Persoană de contact/Contact person
12:30 - 13:00	<p>Întâlnirea comisiei de experți în evaluarea externă a calității cu membri ai Comisiei de etică universitară/ Meeting of the experts panel with members of the University Ethics Committee</p>	<ul style="list-style-type: none"> - Comisia de experți evaluatori ai ARACIS/ Panel members - Membri ai Comisiei de etică universitară/ Members of the University Ethics Committee 	<p>Sala/Locația/ Room/Location D305/Clădire Rectorat/D305/ Rectorat Building</p> <p>Lista persoanelor care vor participa la întâlnire/ List of participants attending the meeting:</p> <ul style="list-style-type: none"> - [REDACTED] - - Președintele comisiei de Etică/ President of the Ethics Committee - [REDACTED] - Director Departament Calculatoare și Tehnologia Informației (CTI)/



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			<p>Director, Department of Computers and Information Technology</p> <p>- [REDACTED]</p> <p>- cadru didactic CTI/ CTI teaching staff</p> <p>- [REDACTED]</p> <p>- [REDACTED] - Persoană de contact/Contact person</p>
13:00 - 13:30	<p>Întâlnirea comisiei de experți în evaluarea externă a calității cu reprezentanți ai conducerii componentei organizatorice/persoana de contact/reprezentanți ai CEAC/reprezentanți ai structurilor organizatorice în domeniul asigurării calității*/ Meeting of the external quality evaluation experts' panel with representatives of the organisational component / contact person / representatives of the CEAC / representatives of quality assurance organisational structures</p>	<p>- Comisia de experți evaluatori ai ARACIS/ Panel members</p> <p>- Reprezentanți ai conducerii / reprezentanți ai CEAC / reprezentanți ai structurilor organizatorice în domeniul asigurării calității/ Representatives of the management / representatives of the CEAC / representatives of the quality assurance organisational structures</p> <p>- Persoana de contact/ Contact person</p>	<p>Sala/Locația/ Room/Location D101/ Clădire Rectorat/ D101/ Rectorat Building</p> <p>Lista persoanelor care vor participa la întâlnire/ List of participants attending the meeting:</p> <p>- [REDACTED] - Rector/ Rector</p> <p>- [REDACTED] - Președinte CEAC/ President of the CEAC</p> <p>- [REDACTED] - Director Departament Calculatoare și Tehnologia Informației (CTI)/ Director, Department of Computers and Information Technology</p> <p>- [REDACTED] - cadru didactic CTI/ CTI teaching staff</p>

* Clarificarea unor aspecte rezultate din activitățile și discuțiile desfășurate pe parcursul efectuării vizitei, dacă se impune



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			- [redacted] – cadru didactic CTI/ CTI teaching staff - [redacted] - Persoană de contact/Contact person
13:30-14:30	Pauză de prânz / Lunch Break		
14:30-15:30	Vizitarea bazei materiale/ Visiting the material resources	- Comisia de experți evaluatori ai ARACIS/ Panel members - Reprezentanți ai instituției sau Academiei Române, după caz/ Representatives of the HEI or the Romanian Academy, as applicable	Sala/Locația/ Room/Location V203, V204, V206, B112, E113, E111, T208, Biblioteca Lista persoanelor care vor participa la întâlnire/ List of participants attending the meeting: - [redacted] - Director Departament Calculatoare și Tehnologia Informației (CTI)/ Director, Department of Computers and Information Technology - [redacted] – cadru didactic CTI/ CTI teaching staff - [redacted] – cadru didactic CTI/ CTI teaching staff - [redacted] - Persoană de contact/Contact person
15:30-16:00	Întâlnirea comisiei de experți în evaluarea externă a calității cu responsabili	- Comisia de experți evaluatori ai ARACIS/ Panel members	Sala/Locația/ Room/Location - Centrul de cercetare în Tehnologia



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	centrelor/laboratoarelor de cercetare / Meeting of the external quality evaluation experts' panel with the staff in charge with the research centres/laboratories	- Responsabilii centrelor/laboratoarelor de cercetare/ Staff in charge with research centres/laboratories	<p>Informației, Electronică și Automatică (CCTIEA)/ Research Center in Information Technology, Electronics and Automation – CCTIEA</p> <p>- Centrul de Cercetare și Inginerie Tehnologică în Conversia energiei Electromagnetice (CCITCEE)/Research and Technological Engineering Center for Electromagnetic Energy Conversion</p> <p>- Interdisciplinary Research Infrastructure In Robotics - IRIROB Lab</p> <p><i>Lista persoanelor care vor participa la întâlnire/ List of participants attending the meeting::</i></p> <p>- [redacted] – Director centru CCTIEA/ Director of the CCTIEA center</p> <p>- [redacted] – Director centru CCITCEE / Director of the CCITCEE center</p> <p>- [redacted] – Director Centru IRIROB/ Director of the IRIROB center</p> <p>- [redacted] – Director Departament Calculatoare și Tehnologia Informației (CTI)/</p>



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			<p>Director, Department of Computers and Information Technology</p> <p>- [REDACTED] – cadru didactic CTI/ CTI teaching staff</p> <p>- [REDACTED] [REDACTED] [REDACTED] – cadru didactic CTI/ CTI teaching staff</p> <p>- [REDACTED] - Persoană de contact/Contact person</p>
16:00-16:30	Întâlnirea comisiei de experți în evaluarea externă a calității cu angajatori ai absolvenților DSUD/ Meeting of the external quality evaluation experts' panel with employers* of the DSUD alumni	<p>- Comisia de experți evaluatori ai ARACIS/ Panel members</p> <p>- Angajatori/ Employers</p>	<p>Sala/Locația/ Room/Location E111/ Cladirea E/ Room E111/ Building E</p> <p>Lista persoanelor care vor participa la întâlnire/ List of participants attending the meeting:</p> <p>[REDACTED] – reprezentant firma EBM PAPST/ EBM PAPST company representative</p> <p>[REDACTED] – reprezentant firma NIDEC/ NIDEC company representative</p> <p>[REDACTED] reprezentant firma PLEXUS/ PLEXUS company representative</p> <p>[REDACTED] reprezentant firma</p>

* Avoid inviting employers who are also staff of the HEI or members of the Romanian Academy, as applicable.

Intervalul orar/ Hour	Activități de evaluare/ Evaluation activities	Participanți/ Participants	Locație/Location /Listă participanți/List of Participants
			LATERAL/ LATERAL company representative [redacted] reprezentant firma GLOBAL LOGIC/ GLOBAL LOGIC company representative [redacted] [redacted] reprezentant firma MOBIVERSAL/ MOBIVERSAL company representative
16:30-17:00	<i>Întâlnirea comisiei de experți în evaluarea externă a calității cu personalul didactic implicat în activitățile din cadrul DSUD/ Meeting of the external quality evaluation experts' panel with the teaching staff involved in the activities within the DSUD</i>	- Comisia de experți evaluatori ai ARACIS/ Panel members - Cadre didactice conducători de doctorat/ Teaching staff who are PhD supervisors	Sala/Locația/ Room/Location E111/ Cladirea E/ Room E111/ Building E <i>Lista persoanelor care vor participa la întâlnire/ List of participants attending the meeting:</i> - [redacted] [redacted] – cadru didactic CTI/ CTI teaching staff - [redacted] – cadru didactic CTI/ CTI teaching staff - [redacted] - Director Departament Calculatoare și Tehnologia Informației (CTI)/ Director,



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			Department of Computers and Information Technology - ██████████ ██████████ - Persoană de contact/Contact person
17:00 - 17:40	Întâlnirea comisiei de experți în evaluarea externă a calității cu studenți doctoranzi din cadrul DSUD/ Meeting of the external quality evaluation experts' panel with doctoral students of the DSUD	- Comisia de experți evaluatori ai ARACIS/ Panel members - Studenți doctoranzi/ Doctoral students	Sala/Locația/ Room/Location E111/ Cladirea E/ Room E111/ Building E Lista persoanelor care vor participa la întâlnire/ List of participants attending the meeting: ██████████ ██████████ ██████████ - student doctorand/ Doctoral student ██████████ ██████████ - student doctorand/ Doctoral student

* Nu este obligatorie în cazul autorizării domeniilor de studii universitare de doctorat/ It is not mandatory in the case of authorization of doctoral university study domain.



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17:40-18:40	Întâlnirea tehnică a comisiei de experți evaluatori (Activitate în colaborare pentru clarificarea aspectelor prezentate în REI)/ Technical meeting of the expert evaluation panel (Collaborative activity for clarifying the aspects presented in the Internal Evaluation Report - IER)	- Comisia de experți evaluatori ai ARACIS/ Panel members	Sala/Locația/ Room/Location E111/ Cladirea E/ Room E111/ Building E
Vineri/ Friday, 25.07.2025			
09:00 - 10:00	Finalizarea activităților de evaluare/ Completion of evaluation activities	- Comisia de experți evaluatori ai ARACIS/ Panel members	Sala/Locația/ Room/Location E111/ Cladirea E/ Room E111/ Building E
10:00-11:00	Întâlnirea membrilor comisiei de experți evaluatori cu reprezentanții conducerii ÎS sau a OFE, după caz și ai conducerii componentei organizatorice pentru comunicarea concluziilor procesului de evaluare/ Meeting of the members of the expert evaluators' panel with representatives of the management of the HEI or the EP, as applicable, and management of the organisational component, to communicate the conclusions of the evaluation process	- Comisia de experți evaluatori ai ARACIS/ Panel members - Reprezentanți ai conducerii și ai domeniului de studii evaluat/ Representatives of the management - Persoana de contact/ Contact person	Sala/Locația/ Room/Location E111/ Cladirea E/ Room E111/ Building E Lista persoanelor care vor participa la întâlnire/ List of participants attending the meeting: - [REDACTED] - Prorector responsabil cu Managementul Calității și servicii administrative/ Vice-Rector responsible for Quality Management and Administrative Services - [REDACTED] [REDACTED] [REDACTED] [REDACTED] - cadru didactic CTI/ CTI teaching staff - [REDACTED] -



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<i>Intervalul orar/ Hour</i>	<i>Activități de evaluare/ Evaluation activities</i>	<i>Participanți/ Participants</i>	<i>Locație/Location /Listă participanți/List of Participants</i>
			<i>Director Departament Calculatoare și Tehnologia Informației (CTI)/ Director, Department of Computers and Information Technology</i> - [REDACTED] - <i>Persoană de contact/Contact person</i>