HOTĂRÂRE

privind validarea rezultatelor procedurilor de evaluare externă a calității educației

Având în vedere prevederile generale şi specifice aferente proceselor sau procedurilor privind:

- **evaluarea externă a calităţii şi validarea rezultatelor cuprinse în Rapoartele de evaluare externă:** art. 223-226, art. 229-230 şi art. 249 alin. (1) lit. f), g) şi h) din Legea nr. 199/2023 a învățământului superior nr. 199/2023, cu modificările şi completările ulterioare, denumită în continuare Legea, precum şi în Metodologia de evaluare externă a calității educației în învățământul superior, aprobată prin Hotărârea Guvernului nr. 962/2024, cu modificările şi completările ulterioare, denumită în continuare Metodologia;

- **autorizarea** de funcţionare provizorie **pentru programele de studii universitare din ciclul I de licenţă:** art. 235 alin. (1) lit. a) şi lit. b) pct. (ii), alin. (2)-(5) şi art. 236 alin. (1)-(2) din Lege;

art. 27, art. 29 şi art. 32-33, coroborate cu art. 59, art. 62 şi art. 63 din Metodologie;

- **autorizarea pentru domeniile de studii universitare din ciclul II de masterat:** art. 235 alin. (1) lit. a) şi lit. b) pct. (iii), alin. (2)-(5) şi art. 236 alin. (1)-(2) din Lege; art. 27-29 şi art. 34-35, coroborate cu art. 59, art. 62 şi art. 63 din Metodologie;

- **autorizarea pentru domeniile de studii universitare din ciclul III de doctorat:** art. 235 alin. (1) lit. b) pct. (iv), alin. (2)-(5) şi art. 236 alin. (1) şi (3) din Lege; art. 27-29 şi art. 37-38, coroborate cu art. 59, art. 62 şi art. 63 din Metodologie;

- **acreditarea pentru programele de studii universitare din ciclul I de licenţă:** art. 239 alin. (1) lit. b) şi alin. (6)-(7), art. 240 alin. (1) din Lege; art. 39-40 şi art. 42, coroborate cu art. 60, art. 62 şi art. 63 din Metodologie;

- **acreditarea pentru domeniile de studii universitare din ciclul II de masterat:** art. 239 alin. (3) şi alin. (6)-(7), art. 240 alin. (1) din Lege; art. 39-40 şi art. 43-44, coroborate cu art. 60, art. 62 şi art. 63 din Metodologie;

- **acreditarea pentru domeniile de studii universitare din ciclul III de doctorat:** art. 239 alin. (4) şi alin. (6)-(7), art. 240 alin. (2) din Lege; art. 39-40 şi art. 46-47, coroborate cu art. 60, art. 62 şi art. 63 din Metodologie;

- **analiza şi validarea în vederea verificării respectării Metodologiei, de către comisiile de experţi evaluatori în cadrul rapoartelor de evaluare externă:** art. 235 alin. (4), pentru autorizare, respectiv art. 239 alin. (6) lit. d), pentru acreditare şi menținerea acreditării, din Lege, precum şi art. 62-63 din Metodologie.

Luând în considerare:

a. Ghidul aplicabil programelor de studii universitare de licență, aprobat prin Hotărârea Consiliului ARACIS nr. 42/06.02.2025, cu modificările şi completările ulterioare;

b. Ghidul aplicabil domeniilor de studii universitare de masterat, aprobat prin Hotărârea Consiliului ARACIS nr. 83/03.04.2025;

c. Ghidul aplicabil domeniilor de studii universitare de doctorat, aprobat prin Hotărârea Consiliului ARACIS nr. 84/03.04.2025;

Întrucât Consiliul ARACIS validează, prin vot deschis şi pe baza verificării respectării Metodologiei, propunerile formulate de către comisiile de experți evaluatori şi poate solicita refacerea Rapoartelor de evaluare externă atunci când constată că Metodologia nu a fost respectată ori respectivele rapoarte nu cuprind suficiente date şi dovezi pentru adoptarea deciziei,

Ținând seama de considerentele Consiliului aferente validării rezultatelor individualizate în procesele verbale de şedință, al căror format a fost aprobat prin Hotărârea Consiliului nr. 170/H/03.07.2025,

În temeiul art. 258 alin. (1) din Lege şi al art. 62 alin. (1) şi (2) din Metodologie, precum şi al art. 7 alin. (1) şi alin. (3) lit. b) şi h), art. 11 alin. (1) şi al art. 23 alin. (5) din Regulamentul de organizare şi funcționare al ARACIS, aprobat prin Hotărârea Consiliului ARACIS nr. 188/H/27.06.2024 şi completat prin Hotărârea nr.116/H/02.04.2026,

Consiliul Agenției Române de Asigurare a Calității în Învățământul Superior
HOTĂRĂŞTE:

Art. 1. (1) Se validează rezultatele procedurilor de evaluare externă a calității educației pentru programele de studii universitare de licență, domeniile de studii universitare de masterat şi de doctorat, precum şi pentru programul universitar de formare psihopedagogică pentru învăţământul preuniversitar, după caz, cuprinse în anexele nr. 1-23 care fac parte integrantă din prezenta hotărâre.

(2) Pentru fiecare dintre programele sau domeniile de studii universitare, anexa corespunzătoare indică, conform art. 230 alin. (2) şi alin.(3) lit. b), c) şi d), art. 231 lit. a) şi b), art. 232 lit. c), d) şi e), art. 235 alin. (1) lit. b), punctele ii-iv, alin. (3)-(5), art. 239 alin. (1) lit. b), alin. (3), (4), (6) lit. a)-d) din Lege, procesul sau procedura de evaluare parcursă, rezultatele din Raportul de evaluare externă care se validează, precum şi considerentele analizei de validitate şi concluzia motivată a Consiliului.

(3) Rezultatele prevăzute la alin. (1) se comunică Ministerului Educației şi Cercetării şi instituțiilor solicitante şi se publică pe site-ul ARACIS.

Art. 2. Analiza de validitate se exercită în limitele art. 235 alin. (4), respectiv ale art. 239 alin. (6) lit. d) din Lege şi ale art. 62 raportat la art. 63 din Metodologie.

Art. 3. Rapoartele de evaluare externă, inclusiv numele experților, se publică integral pe site-ul ARACIS, în condițiile art. 229 alin. (2) din Lege şi ale art. 62 alin. (3) din Metodologie.

Art. 4. Prezenta hotărâre intră în vigoare la data de 22.10.2026.

Art. 5. Prezenta hotărâre va fi dusă la îndeplinire de Direcția Asigurarea Calității şi de Compartimentul Tehnologia Informației.

Prof. univ. dr. ing. Cristian-Vasile DOICIN
Preşedinte

Daniela Cristina GHIȚULICĂ
Director general

Carmen MIRIAN
Director Direcţia Asigurarea Calităţii

Cristina-Vasilica ICOCIU
Director Direcția Juridică, Cooperare, Comunicare şi Formare

Consilier juridic

NR. 318/H/22.10.2026

ANEXA NR. 4
la Hotărârea Consiliului ARACIS nr. 318/H/22.10.2026

Anexa 4.3

DATE DE IDENTIFICARE	
Instituţia de învăţământ superior/organizaţia furnizoare de educaţie	Universitatea „Transilvania“ din Braşov
Şcoala(ile) doctorală(e)	Școala Doctorală Interdisciplinară
Domeniul de studii universitare de doctorat (DSUD)	*Inginerie electrică*
Procedura/procesul de evaluare externă a calităţii educaţiei	Menținerea acreditării

DECIZIA

Descrierea pe scurt a procesului de luare a deciziei

Raportul de evaluare externă (REE) a fost analizat în ședința Comisiei permanente de specialitate Științe Inginerești 2 (CPS_C11) din 25.09.2026, propunerea de decizie fiind consemnată în PV nr. **4819/25.09.2026.** Propunerea de decizie a fost analizată de către Departamentul de evaluare Studii Universitare (DESU), opinia DESU fiind consemnată în PV nr. **5321/ 20.10.2026**

Gradul de îndeplinire a standardelor şi indicatorilor de performanţă şi motivarea deciziei

(se indică cifrele care stau la baza luării deciziei Consiliului ARACIS)

Domeniul	Standarde Î / N	Indicatori de performanţă Î / PÎ / N
A	**Î:** S.A.1.1, S.A.1.2., S.A.2.1., S.A.2.2., S.A.3.1., S.A.3.2., S.A.4.1. N: -	**Î:** I.P.A.1.1.1, I.P.A.1.2.1, I.P.A.2.1.1, I.P.A.2.2.1, I.P.A.3.1.1, I.P.A.3.1.2, I.P.A.3.2.1, I.P.A.4.1.1 PÎ:- N: -
B	**Î:** S.B.1.1., S.B.2.1., S.B.3.1., S.B.3.2., S.B.4.1., S.B.5.1., S.B.7.1., S.B.7.2., S.B.8.1., S.B.9.1., S.B.9.2. N: -	**Î:** I.P.B.1.1.1., I.P.B.2.1.2, I.P.B.3.1.1, I.P.B.3.1.2, I.P.B.3.2.1, I.P.B.4.1.1., I.P.B.5.1.1, I.P.B.5.1.2, I.P.B.7.1.1, I.P.B.7.1.2, I.P.B.7.2.1, I.P.B.8.1.1, I.P.B.9.1.1, I.P.B.9.2.1 PÎ:- N: -
C	**Î:** S.C.1.1, S.C.1.2, S.C.2.2., S.C.3.1, S.C.4.1., S.C.5.1., S.C.6.1., S.C.8.1 N: -	**Î:** I.P.C.1.1.1, I.P.C.1.2.1, I.P.C.2.2.2, I.P.C.3.1.1, I.P.C.3.1.2, , I.P.C.5.1.1, I.P.C.6.1.1, I.P.C.6.1.2, I.P.C.8.1.1 PÎ: I.P.C.4.1.1. N: -

Motivarea deciziei

Consiliul ARACIS în ședința din 22.10.2026 analizează și validează propunerea comisiei de experți în evaluarea externă a calității, constatând că din:

- *32 indicatori: 31 sunt îndepliniți, 1 parțial îndeplinit și 0 neîndepliniți*
- *26 standarde: 26 sunt îndeplinite, 0 neîndeplinite,*

*și, astfel, prin aplicarea art. 63 din Metodologie decide că **standardele sunt ÎNDEPLINITE.**și, astfel, prin aplicarea art. 63 din Metodologie decide că **standardele sunt ÎNDEPLINITE.***

Decizia	Menţinerea acreditării

The Romanian Agency for Quality Assurance in Higher Education



External Evaluation Report (REE) for the procedure for obtaining the maintenance of accreditation (MAC) of the Doctoral Studies Field

Higher education institution/Education provider organization:	Transilvania University of Brasov
Doctoral School:	Interdisciplinary Doctoral School
Doctoral field:	Electrical Engineering
Objective of the external evaluation:	Maintaining accreditation (MAC)

Members of the ARACIS Evaluation Panel

No.	Name and surname	Role in the team	Signature
1.	**Prof. Dr. Eng. Enache Sorin**	Expert evaluator	
2.	**Prof. Dr. Eng. Tihomir Latinovic**	International expert	
3.	**Eng. Ph.D. Ilie Ana Lavinia**	Ph.D Student evaluator	

I. Introduction

- the context in which the external evaluation report was drafted (the type of evaluation, the period covered by the evaluation, membership of the external quality experts' panel, etc.);

This External Evaluation Report was prepared by the visiting committee in the context of the periodic evaluation of the doctoral field of Electrical Engineering at Transilvania University of Brașov (UNITBV).
The expert committee was composed of:

- Prof. Dr. Eng. Enache Sorin - Expert evaluator;
- Prof. Dr. Eng. Tihomir Latinovic - International expert;
- Eng. Ph.D. Ilie Ana Lavinia - Student evaluator.

The visit period was September 07 - 09, 2026.

- description of the higher education institution / Romanian Academy (establishment, evolution, mission, governance, structure, study programmes/domains, external quality evaluation procedures applied);

Transilvania University of Brașov - UNITBV (https://unitbv.ro/) is a state-owned, accredited higher education institution, operating on the basis of university autonomy, in accordance with the legal framework established by the Romanian Constitution and the Higher Education Law no. 199/2023, by the national regulations on ensuring the quality of education, as well as by internal decisions. The name under which the University currently operates is documented by the Order of the Minister of Education and Science no. 4894/ 22.03.1991. The history of today's institution began in 1948, when the Brașov Forestry Institute was established. In the seven decades of its existence, the University has continuously evolved and diversified. The institution's activity is based on the UNITBV Charter (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/carta-universitatii/CARTA_UNITBV_2025.PDF). UNITBV's mission is to produce and transfer knowledge to society, through: (1) initial training at university level, embodied in bachelor's, master's and doctoral degree programs; (2) advanced scientific research, development, innovation and technological transfer; (3) postgraduate programs; (4) development of interaction between the University and society, through partnerships in accordance with the principles of a knowledge-based society.
The university's strategy, transposed into the strategic plan for the period 2024-2029 (https://www.unitbv.ro/despre-unitbv/informatii-de-interes-public/transparenta-institutionala/planuri-strategice-si-operationale.html) and in the annual operational plans (https://www.unitbv.ro/despre-unitbv/informatii-de-interes-public/transparenta-institutionala/planuri-strategice-si-operationale.html), is intended to fulfill the mission assumed by achieving the following strategic objectives: (1) increasing the university's performance; (2) developing a dynamic university community, adapted to the needs of society; (3) fully integrating the university into the European higher education space and intensifying the university's internationalization process. UNITBV is a comprehensive university that includes 18 faculties (9 faculties with an engineering profile and 9 faculties with various profiles: humanities, sciences, economics, law, medicine, music, etc.). In the academic year 2025–2026, UNITBV has 21,857 students enrolled, of which 17,522 are undergraduate students, in 98 undergraduate study programs (90 in Romanian and 8 in foreign languages), 3,738 master's students in 85 programs (59 in Romanian and 26 in foreign languages) and 597 doctoral students in 24 doctoral programs (in Romanian and foreign languages). The university also has 621 resident doctors, who work in 28 clinical departments of hospitals in Brașov.
UNITBV also functions as an important research and innovation center, supporting interdisciplinary collaboration within the 31 research centers. These are integrated into the largest research and development institute of a Romanian university, built and equipped with financial support from the European Union (20 million euros from European structural funds and 10 million euros from UNITBV's own resources). In 2025, Transilvania University of Brașov managed and implemented 110 national and international research and consultancy projects (including 18 Horizon Europe projects), with a total annual value of 2,063,921 euros. The upward trend in UNITBV's involvement in large-scale research is highlighted by the increase in the total annual value of projects compared to 2019, when 136 projects were implemented, with a total annual value of 1,816,845 euros.
The intensification of the internationalization process is one of UNITBV's strategic priorities. In this regard, UNITBV has concluded collaboration agreements (framework agreements, ERASMUS+ and CEEPUS) with

721 partner institutions from 92 countries, and the number of full-time international students has increased by 80% in the last 5 years (from 362 students from 61 countries in 2020 to 581 international students from 91 countries in 2025), mainly due to the launch of study programs in foreign languages.
In 2022, Transilvania University of Braşov joined the European Network of Innovative Higher Education Institutions (ENIHEI). In 2023, UNITBV became a member of the European Alliance of Universities UNITA Universitas Montium, one of the 65 European university alliances funded by the European Commission. The year 2023 also marked the international recognition of the efforts and significant progress of UNITBV in implementing the provisions of the European Charter for Researchers and the 40 principles of the Code of Conduct for the Recruitment of Researchers, with the European Commission awarding the university the "HR Excellence in Research Award".
In recent years, Transilvania University of Braşov has made significant progress both at the national and international academic levels, an aspect reflected in its position in the national meta-ranking (https://www.edu.ro/sites/default/files/Metaranking_2024.pdf), from 12th place in the 2019 meta-ranking, advanced to 5th place in 2024 – the most significant rise among Romanian universities, and in international rankings. Among Romanian universities, UNITBV has consistently been in the top 10, regardless of the criteria used by the various ranking systems, reflecting its growing academic and research performance. The last periodic evaluation of the "Transilvania" University of Braşov took place in 2023, following which the rating of "High degree of trust" was awarded (Annex I requested).

- general description of the doctoral study domain (why it was established - in the case of a provisional authorisation to operate; evolution and/or changes since the last external quality evaluation procedure - in the case of procedures intended for accreditation or maintaining accreditation, as applicable).

Transilvania University of Braşov (UNITBV) organizes doctoral and post-doctoral studies within IOSUD-UNITBV (https://www.unitbv.ro/cercetare/doctorat-postdoctorat-si-abilitare/iosud.htmlIOSUD-UNITBV is managed by the Council for Doctoral University Studies CSUD (https://unitbv.ro/cercetare/studii-doctorale/despre-noi/csud).
Doctoral university study programs are organized and carried out within IOSUD-UNITBV, through the Interdisciplinary Doctoral School SDI (https://unitbv.ro/cercetare/studii-doctorale/despre-noi/echipa-sdi). It operates within IOSUD-UNITBV, starting with October 1, 2010, being established by the Decision of the Senate of Transilvania University of Braşov of July 27, 2010.
Currently, within IOSUD-UNITBV, 24 doctoral fields operate, including Electrical Engineering. At the date of the analysis, the situation regarding the doctoral field of Electrical Engineering within IOSUD–UNITBV, with the specification of the legal basis for its establishment, includes 6 doctoral supervisors (3 tenured and 3 retired) and 14 doctoral students. All doctoral supervisors are affiliated only with IOSUD-UNITBV and none has exceeded the limit of eight doctoral students supervised simultaneously.
Since the last external evaluation procedure, carried out in 2021, the field of Electrical Engineering has experienced some changes in the team of doctoral supervisors. Thus, a new member was added to the team of doctoral supervisors, Assoc. Prof. Dr. Eng. Marius VOLMER, and Prof. Dr. Eng. Radu-Mihai CÂMPEANU withdrew. Also, Prof. Dr. Eng. Corneliu MARINESCU disaffiliated in 2024, but returned in 2025. The situation of doctoral supervisors, including research topics, is updated annually by SDI and published on the university website (https://www.unitbv.ro/cercetare/studii-doctorale/domenii-de-doctorat-si-teme.html).The situation of doctoral students in the field of Electrical Engineering in the period 2021–2025 is presentedat the addresshttps://aracisroro.sharepoint.com/:b:/s/evaluarfmo-21156/IQDguXIR41_bRbJlEuauqFTCAVBGVGBX-yv7Km6ilk3T--c?e=PDcy0y.
As of the date of this report, there are 14 doctoral students in various stages of their doctoral studies: 11 are in the normal doctoral internship, one has completed his thesis and is in the public transparency stage, one doctoral student is on suspension, and one is on extension. Also, during the period under review, two doctoral students publicly defended their doctoral thesis. Three other doctoral students withdrew or were expelled.

II. Methods used

- Analysed documents (internal evaluation report and its annexes; additional documents requested before and during the on-site visit, if any; other documents or data);

The documents analyzed by the ARACIS evaluation committee are:
• Internal evaluation report for the doctoral field of Electrical Engineering within SDI - UNITBV;
• The annexes of the internal evaluation report (uploaded to the 2_University directory),
• Additional requested documents, as well as other information obtained during the visit from interviews, applied questionnaires and public data available on the institution's website (additionally requested annexes were uploaded to the 3_University_Supplementary directory).

- On-site visit (general list of visited locations and categories of persons with whom debates have been organised);

The visit of the ARACIS expert committee included the educational spaces within the Faculty of Electrical Engineering and Computer Science: research laboratories, lecture halls and seminar rooms.
The ARACIS expert committee met with the following categories of people:
1. Representatives of the management of the organizational component (Dean, Director, Coordinator);
2. The team that prepared the internal evaluation report (3 teachers);
3. Teaching staff involved in the activities within DSUD (6 teachers);
4. Employers of DSUD graduates (4 employers);
5. Heads of research centers/laboratories (4 responsible);
6. Representatives of organizational structures in the field of quality assurance (2 people);
7. Members of the University Ethics Committee (2 people);
8. PhD students from DSUD (11 students);
9. Graduates of DSUD (4 graduates).

- Other relevant methods or aspects.

That's not the case.

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.

Transilvania University of Brașov (UNITBV) organizes doctoral studies within the Institution Organizing Doctoral Studies – Transilvania University of Brașov (IOSUD-UNITBV). Doctoral studies are organized and conducted in accordance with the Regulation for the Organization and Conduct of Doctoral and Postdoctoral Studies (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/studenti/Regulament_desfasurare_studii_doctorat_postdoctorat_30.09.2024.pdf).
Doctoral university study programs are organized and carried out within IOSUD-UNITBV through the Interdisciplinary Doctoral School (SDI). The organization and functioning of the SDI, as well as the manner of organizing, carrying out and completing doctoral university studies in IOSUD-UNITBV, are established by the Regulation of the Interdisciplinary Doctoral School (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/studenti/Regulamentul_SDI_30.09.2024.pdfThe Director of CSUD is appointed following a public competition organized in accordance with the Methodology for organizing and conducting the public competition for the position of Director of the Council

for University Doctoral Studies (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/alegeri/Metodologie_concurs_director_CSUD_20.12.2023.pdf).
There is a Regulation for the organization and conduct of doctoral and postdoctoral university studies. For the election of the members of the two councils, the Methodology for the election of the members of the Council for Doctoral University Studies (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/alegeri/Metodologie_alegeri_membri_CSUD_29.05.2024.pdf), respectively the Methodology for the election of members of the Council of the Interdisciplinary Doctoral School (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/alegeri/Metodologia_alegeri_membri_C-SDI_24.07.2024.pdf).
Council for Doctoral University Studies (https://www.unitbv.ro/cercetare/doctorat-postdoctorat-si-abilitare/despre-scoala-doctorala/csud) is made up of 11 members.
CSUD decisions from 2016 to the present are posted on the university website (https://www.unitbv.ro/cercetare/doctorat-postdoctorat-si-abilitare/despre-scoala-doctorala/csud).
In the spirit of institutional transparency, all regulations/methodologies are posted on the institution's website, in the University Regulations section (https://www.unitbv.ro/despre-unitbv/regulamente-si-hotarari/regulamentele-universitatii.html). Additionally, the documents are posted on the doctoral school website, in the Regulations, Methodologies, Reports section (https://www.unitbv.ro/cercetare/studii-doctorale/regulamente-metodologii-rapoarte.html).
In conclusion, IOSUD-UNITBV has organizational components and a management system adequate for the organization of doctoral studies, the operation of which is based on regulations and methodologies periodically revised, in accordance with the law. The basic processes at the doctoral school level (regarding doctoral supervisors, doctoral internship and doctoral thesis defense) are regulated by a package of specific instructions, periodically updated to align with legal provisions and the university's strategy.

✓ Recommendation

Increasing transparency and accessibility of information by restructuring the doctoral school's website, so that all documents are available in a unified, updated and bilingual form (Romanian & English).

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 application procedures for the DSUD in electrical engineering comply with the legislation in force and the regulations of the UNITBV Senate, which through the specialized committees (teaching committee, scientific committee, quality assurance committee) prepare reports/methodologies and issue opinions that are subject to debate and approval by the Senate. Within the UNITBV Senate, the following were elected from the IESC faculty, at the level of the three departments. The IEFA Department coordinates the activity of the doctoral field of Electrical Engineering. Regarding the quality assurance documents, the Quality Assurance Office within UNITBV periodically reviews the educational processes (https://didactic.unitbv.ro/oficiul-de-asigurare-a-calitatii/documente-eu-ro-utbv-smc): procedures regarding the initiation, monitoring and evaluation of study programs and doctoral fields, the procedure for evaluating teaching activity by students, etc.
All teachers have access to document files within educational processes/core processes, using the intranet platform (https://intranet.unitbv.ro/autenficiare?returnurl=%2f), using the institutional account. The level of computerization of the administration is compatible with that of the European higher education area: administrative services carry out current activity, monitoring and reporting activity using specific software and are connected to the Internet.

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

The process of adopting and reviewing methodologies, regulations and application procedures is carried out by the University Senate through the 6 specialized committees: the teaching committee, the scientific committee, the quality assurance and international relations committee, the committee on students' rights and obligations, the budget-finance committee and the legal committee.
Evidence was requested and received regarding the involvement of the university community in the processes of developing and revising regulations and methodologies. Tables with the persons involved in the development and approval of methodologies and regulations, respectively extracts from the minutes of the Faculty Council, are presented. 2 annexes I.P.A.1.2.1.a and I.P.A.1.2.1.b were requested.

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.

Transilvania University of Braşov legally owns premisesadequate that allow the proper conduct of the activity within IOSUD-UNITBV.
The research infrastructure available for the Doctoral School is mainly formed by the material base of the Research and Development Institute (ICDT) of the Transilvania University of Braşov (https://icdt.unitbv.ro), to which are added, in addition, the spaces and infrastructure of specialized laboratories specific to the doctoral field of Electrical Engineering.
UNITBV carried out the project CNFIS-FDI-2024-F-0397 entitled "From access to success. Creating an accessible and inclusive academic environment for students with disabilities" (https://unitbv.ro/stiri-si-evenimente/176-stiri-si-evenimente/6663-concurs-de-idei-de-proiecte-crearea-unui-campus-disability-friendly.html), which aims to create the institutional and educational framework to ensure an inclusive and equitable, quality education for students with disabilities at Transilvania University of Braşov.
Doctoral supervisors in the field of Electrical Engineering carry out their research activities mainly within the specialized laboratories of the Faculty of Electrical Engineering and Computer Science (IESC) within ICDT, with the center of gravity in the L4 laboratory, belonging to the Advanced Electrical Systems Research Center (SEA) https://icdt.unitbv.ro/ro/centre-de-cercetare/sisteme-electrice-avansate.html. The material base of the L4 laboratory includes equipment purchased within the ICDT Institute project in 2011, to which are added additional equipment obtained later through research and institutional development projects, detailed on the Infrastructure page of the SEA research center (https://icdt.unitbv.ro/ro/centre-de-cercetare/sisteme-electrice-avansate/infrastructura.html. The most recent facilities of the SEA research center were completed in 2024, through the PNRR institutional project entitled "Digital Transformation for Innovation and Competitiveness" (https://www.unitbv.ro/cercetare/rezultatele-cercetarii/fonduri-structurale.html). As part of this PNRR project, a series of high-performance equipment was purchased.
In addition to the research laboratory spaces, ICDT-L4 also has office spaces located on the 1st floor of the ICDT buildings, intended for the optimal development of the activities of doctoral supervisors and doctoral students. These spaces are appropriately equipped with offices, internet access, printer, video projector. In addition, doctoral students have access to the facilities of the Transilvania University Library in Braşov, both the book collection and the reading rooms (https://unitbv.ro/biblioteca.html).
Students also have access to international databases (https://unitbv.ro/biblioteca/212-biblioteca-universitatii/linkuri-cataloage-biblioteca.html) that can be accessed from within the university network or externally through the platformhttps://www.e-nformation.ro/Another important resource for electrical engineering doctoral students made available by UNITBV is the MATLAB/Simulink software, with full access to its libraries (https://www.mathworks.com/academia/tah-portal/universitatea-transilvania-din-brasov-31585031.html).

The indicator is: fulfilled.

Standard S.A.2.2. Material resources management Organizational components manage the movable and immovable assets used for the evaluated program/field of study in an optimal and 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.

It was found that all the facilities and spaces intended for carrying out doctoral activities are properly maintained by both the administrative structures and the doctoral supervisors and doctoral students. The administrative component of UNITBV (https://www.unitbv.ro/conducere-de-administratie/administratie) has in its structure departments and services specialized in maintenance, security and labor protection, or asset management.
Also, the UNITBV library (https://www.unitbv.ro/biblioteca.html) owns resources (book collection in physical and electronic format, study spaces) located in the Transilvania University Auditorium. These are adequately maintained to facilitate access for students (including doctoral students) and teaching staff in optimal study conditions.
During the visit, it was found that the ICDT premises (https://icdt.unitbv.ro/) offers optimal conditions for carrying out all activities specific to doctoral research, and the specialized laboratories are adequately maintained, under the coordination of the laboratory managers. Special attention is paid to the periodic verification of compliance with safety and labor protection measures within the laboratories related to the field of Electrical Engineering.
Also, foreign students are accommodated in adequate conditions in UNITBV student dormitories. Doctoral Grants for UNITBV International Graduates https://unitbv.ro/en/research/fellowships-and-scholarships/4382-doctoral-grants-for-unitbv-international-graduates.html) offers them free access to UNITBV student dormitories (https://www.unitbv.ro/studenti/administrative/camine-si-cazari.html).

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.

The activity of the doctoral school is based on human resources directly and indirectly involved in the high-quality training of doctoral students, through the advanced university training program (PPUA) and the individualized research program per doctoral student, as well as in ensuring the necessary support activities, from admission and enrollment to the completion and public defense of doctoral theses.
Thus, the human resources involved include: doctoral supervisors (https://unitbv.ro/cercetare/studii-doctorale/domenii-de-doctorat-si-teme.html), the full-time teachers of the subjects taught within PPUA I, the members of the guidance committees and the SDI administrative team consisting of the SDI secretariat (3 secretaries) and the SDI director. List of PPUA-I discipline holders (https://www.unitbv.ro/documente/cercetare/doctorat-postdoctorat/Titulari_discipline_PPUA_I_anul_I-semestrul_I.pdf) includes teachers with advanced training in the field of the subjects taught, as demonstrated by their CVs and the list of published scientific papers - Annex 3 (https://aracisroro.sharepoint.com/:b:/s/evaluarfmo-21156/IQAwXZ5EBuBcR5p00JL8XuUEAUgwdoGQM29A8L2SC6BhMnw?e=RP4Ugd).
The teachers possess the necessary qualifications and professional skills to teach the subjects within the PPUA-I (engineering), as evidenced by their CVs and their lists of scientific papers.

Doctoral supervisors in the field of Electrical Engineering coordinate doctoral theses in thematic areas for which they have professional expertise (https://www.unitbv.ro/cercetare/studii-doctorale/domenii-de-doctorat-si-teme.html- Electrical Engineering), proven through results and visibility nationally and internationally.
The REI summarizes the main scientific contributions of the leaders, expressed through the prism of field-specific metrics, namely: WOS/IEEE indexed publications, patents, international visibility and fulfillment of CNATDCU criteria at the current date. Of the 6 doctoral supervisors, 5 meet the CNATDCU criteria in force (OM 6129/2016) and have accumulated, in the last 5 years, a score of over 50% of the minimum value for the field (600 p). The CNATDCU files of the six doctoral supervisors are included in Annex 2 (https://aracisroro.sharepoint.com/:b:/s/evaluarfmo-21156/IQDqjqvLUlVrQpi_3X6ogkQ7AdA8RLjvO7iF7KYodPCf1Vc?e=7ieeUg).

✓ Recommendation

It is recommended to attract new doctoral supervisors from among young teaching staff. It is also advisable to organize co-supervised doctoral programs, which represents another way of attracting highly qualified human resources within the DSUD Electrical Engineering.

The indicator is: fulfilled.

Indicator I.P.A.3.1.2	The HEI ensures professional and personal development for its staff.

Within UNITBV, the personal and professional development of staff is an essential pillar for ensuring the quality of education and research. Within the UNITBV University Charter (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/carta-universitatii/Carta_UNITBV_2026.PDF) emphasizes the need to increase skills through continuing education programs, participation in research projects and international collaborations, as well as the integration of professional progress into the hierarchical and decision-making structure of the university.
Strategic analysis from the IESC Faculty Plan (https://iesc.unitbv.ro/images/documente/hotarari-rapoarte/IESC_Plan_strategic_2024-2029_v2.pdf) also highlights some vulnerabilities: a limited number of doctoral coordinators, the need to stimulate innovative research and the active involvement of staff in the academic community and the socio-economic environment. In this context, the strategic plan proposes concrete measures to support professional development, including international mobility, mentoring programs, strengthening digital and scientific skills, as well as creating an institutional environment that encourages continuous learning and recognition of individual performance.
UNITBV promotes several professional development programs for staff, as follows: ERASMUS+ for academic staff (https://unitbv.ro/studenti/erasmus/erasmus-pentru-personalul-universitaria.html) for teaching or training abroad; the UNITA Alliance program (https://www.unitbv.ro/afilieri-si-cooperari/unita-universitas-montium.html) offers teachers the opportunity to develop partnerships in a consortium of 12 universities from 7 European countries; internal programs to stimulate and reward performance in scientific research, according to HCA 29/09.09.2025 (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/hotarari-consiliu-administratie/2024-2029/HCA_29_09.09.2025.pdf).
Most of the doctoral supervisors in electrical engineering have benefited in recent years from the previously mentioned UNITBV programs. It is necessary to mention the activity of the Electrical Engineering field within the UNITA Alliance, where Prof. Dr. Eng. Ioan Şerban (doctoral supervisor), together with Assoc. Prof. Dr. Eng. Cătălin-Petrea Ion, participated in the period 2024–2025 in a UNITA project, funded by UNITBV, which aimed to submit a proposal for an MSCA Doctoral Networks project (https://rea.ec.europa.eu/funding-and-grants/horizon-europe-marie-sklodowska-curie-actions/msca-doctoral-networks_en), in a consortium of five European universities.

✓ Recommendation

It is recommended to continue internal programs to stimulate and reward professional performance. It is also recommended to consider increasing the degree of collaboration with international partners, through mobility programs and exchange of experience.

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 employment of teaching and research staff within UNITBV is done through a competition for an indefinite or fixed period.
Job advertisements are posted on the university website (https://www.unitbv.ro/despre-unitbv/cariera-si-posturi-vacante.html). Methodology for filling vacant teaching positions through competition and entering the position (https://unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/angajati/Metodologie_concursuri_posturi_didactice_08.05.2025.pdf) is carried out only after the competitions have been validated by the UNITBV Senate.
Doctoral coordinators in the field of Electrical Engineering are usually recruited from among the teaching staff who obtain the habilitation in the field. In order to obtain the right to supervise doctoral students, the authorized persons can request affiliation to SDI, a process that is done according to the Instruction IS1-1 regarding affiliation to SDI (https://www.unitbv.ro/documente/cercetare/doctorat-postdoctorat/Instruc.iuni/IS_1-1_Instructione_privind_afilierea_la_SDI.pdf). Also, Instruction IS1-2 (https://www.unitbv.ro/documente/cercetare/doctorat-postdoctorat/metodologii-rapoarte/v2/IS-1-2-Retragere_afiliere_SDI-v3-aprobata_CSUD_14-12-18.pdf) provides the framework for withdrawing a doctoral supervisor's affiliation with SDI. All recruitment processes are carried out in compliance with the rules on the processing of personal data, in accordance with the university's regulations (https://unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/generale/Regulament_prelucrare_date_personale_24.07.2024.pdf).
It was noted that in the Doctoral Field of Electrical Engineering, regarding the recruitment of doctoral supervisors, in 2025, Mr. Assoc. Prof. Dr. Marius VOLMER affiliated with SDI, as a doctoral supervisor in the field of Electrical Engineering (https://www.unitbv.ro/cercetare/studii-doctorale/domenii-de-doctorat-si-teme.html). During the reported period, Mr. Prof. Dr. Eng. Radu Mihai Câmpeanu retired from SDI. Also, Mr. Prof. Dr. Eng. Corneliu Marinescu disaffiliated from SDI in 2024, and in 2025 he reaffiliated to coordinate a doctoral student in his field of expertise.

✓ Recommendation

Within the field of Electrical Engineering, it is recommended to increase the number of tenured doctoral supervisors by prioritizing support for teachers who have the opportunity to obtain habilitation.

The indicator is: fulfilled.

Criterion A.4. Digitization 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.

It was found that, within UNITBV, there is a digital transformation strategy (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/generale/2._Strategia_de_transformare_digitala_UNITBV.pdf. This led, among other things, to reaching a level of computerization of the administration comparable to that in the European area (administrative services carry out their current activity using specific software).
At the institutional level, the IT infrastructure is developed. All members of the academic community have access (through the username and password associated with the institutional account) to the electronic resources available on the intranet platform. https://intranet.unitbv.ro . Within it, there is a section dedicated

to the doctoral school, with information of interest to doctoral students, such as the schedule and disciplines in PPUA-I, specific instructions and forms for the doctoral internship, framework models for doctoral study contracts and additional documents for extension and interruption, minimum national standards for awarding the doctoral degree, events dedicated to doctoral students, etc.).
There is also the e-learning platform https://elearning.unitbv.ro, the practice portal https://practica.unitbv.ro, the Erasmus mobility portal https://erasmus.unitbv.ro, file transfer service, document storage and editing https://drive.unitbv.ro, electronic mail service https://mail.unitbv.ro/https://student.unitbv.ro.
Recently, the platform was purchased and implemented https://academics.unitbv.rofor easy reporting and management of research results.
Currently, there is an IT platform dedicated to doctoral studies -http://doctorat.unitbv.ro/In this application, data from the doctoral admission phase is processed, including previous studies, and all data related to the guidance committee, the doctoral program, the results obtained along the way, the stage of preparation, the doctoral student's status (normal internship, extension, grace, interruption), the status of the fees (as applicable), until the completion and public defense of the thesis will be completed.
In conclusion, doctoral students have at their disposal a high-performance IT infrastructure, with easy access, as well as learning resources that allow the educational process to be carried out in quality conditions. Through the dedicated electronic platform, doctoral students have access to relevant information regarding the doctoral internship (grades, qualifications and credits obtained, form of education, payment of fees, etc.), doctoral supervisors can access the up-to-date situation of the coordinated doctoral students, and the doctoral school secretariat can extract data that serves as a basis for reporting.

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.

According to the Doctoral School Curriculum (https://www.unitbv.ro/cercetare/studii-doctorale/stagiul-doctoral/planuri-de-invatamant-si-fise-de-disciplina.html), Engineering field, the general objective of doctoral studies is to train specialists at the higher level of university studies, competent in carrying out scientific research for research-development and innovation and capable of insertion into the highly qualified labor market. The specific objectives of the Electrical Engineering doctoral field include the development of professional skills (content, cognitive and research) and transversal skills. In order to obtain the doctoral degree, the doctoral student is ensured of completing advanced university study disciplines and a professional-scientific training at a higher level, under the guidance of the doctoral supervisor and the academic guidance and integrity committee.
The educational path of doctoral students is detailed in the Curriculum (https://www.unitbv.ro/cercetare/studii-doctorale/stagiul-doctoral/planuri-de-invatamant-si-fise-de-disciplina.html) and the individual training program (PID).
According to the Curriculum, the Doctoral Studies Program has the following structure:
• Advanced University Preparation Program (UPP): 1 year (2 semesters): Semester I: teaching activities and individual study (14 weeks); Semester II: individual study; preparation and taking of specialized exams (14 weeks);
Exam sessions: Winter session (sem I disciplines) - 2 weeks: February; Open session sem II. (specialty exams): March-July; Residency session - 3 weeks: September;

• Scientific Research Program (PCS/PCA): 3 years; Individual study; preparation and defense of research reports;
• Completion and public defense of the doctoral thesis.
In case of fulfilling the obligations related to semester I and semester II, doctoral students are granted 60 credits (30 credits per semester). The total number of credits for the doctoral program is 240. The duration of the doctoral study program is 4 years, with the possibility of extension by 1-2 years according to the law.

✓ Recommendation

It is recommended to continue adapting the program to the learning and research needs of doctoral students, following national and international developments in the field of Electrical Engineering. The learning outcomes, according to the new ARACIS specific standards, must be oriented primarily towards supporting research activity and developing skills for disseminating scientific results.

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 skills required by the respective occupations, according to occupational standards and/or the European Ranking of Competences, Skills and Occupations (ESCO).

At the IOSUD-UNITBV level, learning outcomes are defined by knowledge, skills/aptitudes, responsibility and autonomy. These are established by the Curriculum (https://www.unitbv.ro/cercetare/studii-doctorale/stagiul-doctoral/planuri-de-invatamant-si-fise-de-disciplina.html) and are correlated with the professional and transversal competencies provided for in art. 7 para. (9) and (10) of the Framework Regulation on doctoral studies, OM 3020/2024 (https://www.edu.ro/sites/default/files/fisiere%20articole/OM_3020-2024.pdf).
The learning outcomes are aligned with level 8 of the CNC and are also correlated with ESCO occupational standards.
DSUD's mission is to train research specialists in the field of electrical engineering.
The domain-specific competencies and related learning outcomes are closely correlated with the resources of the Advanced Electrical Systems Research Center (https://icdt.unitbv.ro/ro/centre-de-cercetare/sisteme-electrice-avansate.html) and aims at doctoral training capable of responding to the diverse demands of the labor market, both nationally and internationally.
It is considered that these skills, acquired at the doctoral level, offer graduates the opportunity to build a career in academic or industrial research, in university teaching or in other sectors of society.

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.

Organizational componentcarries out specific activities, according to the Regulation for the organization and conduct of doctoral studies (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/studenti/Regulament_desfasurare_studii_doctorat_postdoctorat_30.09.2024.pdf) and the Advanced University Preparation Program (PPUAhttps://www.unitbv.ro/documente/cercetare/doctorat-postdoctorat/Instruc.iuni/IS-7-Instructione_privind_structura_si_continutul_PPUA_v2.pdf).

The curricula related to the PPUA and the subject sheets/research sheets specify activities such as: doctoral-level courses, research seminars, specialized laboratories, individual mentoring activities, mobility internships and participation in conferences.
The basic processes at the doctoral school level (regarding doctoral supervisors, the doctoral internship and the defense of doctoral theses) are regulated by a package of specific instructions (https://www.unitbv.ro/cercetare/studii-doctorale/regulamente-metodologii-rapoarte/instructiuni-specifice.html), periodically updated to align with legal provisions and the university's strategy.
Activities (https://www.unitbv.ro/cercetare/studii-doctorale/stagiul-doctoral.html) are structured as follows: advanced training activities, described in the Advanced University Training Program (PPUA) (courses and seminars focused on ethics, academic integrity and research methodologies); individual research activities, according to the Scientific Research Program (PCS) (foundation of the doctoral thesis, development of scientific articles and participation in research grants); guidance and monitoring: each doctoral student benefits from the personalized guidance of a doctoral supervisor and a guidance committee, ensuring a path adapted to the research needs of the doctoral project.
The organization of the doctoral school is oriented towards student-centered learning, with disciplines of general interest for engineering in the first semester, as reflected in the Curriculum and the PPUA-I Discipline Sheets (https://www.unitbv.ro/cercetare/studii-doctorale/stagiul-doctoral/planuri-de-invatamant-si-fise-de-disciplina.html).
In the second semester, doctoral students follow a program with specialized disciplines proposed by the doctoral supervisors, oriented towards the research topic of each doctoral student. In the following years, the individual training program includes papers and specialized activities established by mutual agreement between the doctoral supervisor and the doctoral student, in accordance with the direction and objectives of the research.
It was also found that the research results were capitalized on through the publication of scientific articles, which confirms the effectiveness of the proposed doctoral training program.
In conclusion, it is considered that the entire doctoral activity ensures the implementation of the principles of student-centered learning and offers the doctoral student the opportunity to personalize their academic and research path, to develop their scientific and professional skills, as well as to strengthen their autonomy, critical thinking and capacity for innovation.

The indicator is: fulfilled.

Indicator I.P.B.3.1.2	The organisational component ensures opportunities for students to participate in academic mobility programmes organised in person and/or virtually.

Doctoral students have the opportunity to access academic mobility programs for the conduct of doctoral research activities and exchange of experience. Information about accessing the programs is posted on the UNITBV website:
- ERASMUS for students (including PhD students):https://unitbv.ro/studenti/erasmus/erasmus-pentru-studenti.html;
- Scholarships for research internships abroad:https://www.unitbv.ro/cercetare/doctorat-postdoctorat-si-abilitare/doctoranzi/burse;
- “Premiere ISI WoS /Clarivate Analytics”, offers PhD students who publish articles in WOS journals an amount (4000lei/SRI unit cumulated for all UNITBV authors), managed by the Project Management Office, which can also be used for participation in conferences (https://www.unitbv.ro/cercetare/studii-doctorale/burse-finantare-premiere.html);
- “Conferences with ISI WoS/Clarivate Analytics indexed volume” - allocation of 1000 lei/year for participation in national conferences with ISI/WOS indexed proceedingshttps://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/hotarari-consiliu-administratie/2024-2029/HCA_02_26.03.2024.pdf).
At the same time, IOSUD-UNITBV makes available amounts from doctoral grants for doctoral students' travel to participate in conferences.
It was found that PhD students in the field of Electrical Engineering have benefited from these forms of funding in the last 5 years. The situation of long-term mobilities financed through the Erasmus+ program

was detailed in the REI. It referred to the mobilities of 4 PhD students, who benefited from trips to universities in Denmark, Spain and Germany.
It should be noted that doctoral students received financial support for travel to conferences, most of which involved physical attendance (Annex 4).

The indicator is: fulfilled.

Standard S.B.3.2. Fairness The organisational component provides fair opportunities for students.	
Indicator I.P.B.3.2.1	The organisational component provides fair opportunities for students, in line with their potential and aspirations, taking into account the diversity of learning styles and abilities

The organizational component (UNITBV) has developed strategies that ensure fair opportunities for doctoral students, aimed at meeting their academic and research aspirations, based on the Code of Student Rights and Obligations and the Regulation on the Organization and Functioning of University Doctoral Studies (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/studenti/Regulament_desfasurare_studii_doctorat_postdoctorat_30.09.2024.pdf).
These strategies are supported by: • The methodology for admission to doctoral studies (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/studenti/Metodologie_admitere_doctorat_25.02.2026.pdf), which ensures a transparent and non-discriminatory selection process, based on research skills and the availability of budgeted places (including special places for disadvantaged categories or Romanians from all over the world); • Regulations regarding the schooling of Romanians from all over the world (https://admitere.unitbv.ro/romani-de-pretutindeni/acte-necesare-pentru-inscriere/224-romani-de-pretutindeni.html), which facilitates access to high-level research for this category of candidates; • Regulations on the granting of doctoral scholarships (https://www.unitbv.ro/cercetare/studii-doctorale/burse-finantare-premiere.html), which supports scientific excellence and inclusion. The university offers scholarships financed from the state budget, scholarships from UNITBV's own revenues, and awards for outstanding results in research activity (publications in impact journals, patents).
It was found that equitable opportunities for doctoral students are ensured through a flexible structure of the study program, which takes into account the individual potential and aspirations of each student. As stipulated in the Curriculum (https://www.unitbv.ro/cercetare/studii-doctorale/stagiul-doctoral/planuri-de-invatamant-si-fise-de-disciplina.html), to make the subject offer more flexible, doctoral students can choose two optional subject packages in the first semester.
The individual training program for doctoral students in electrical engineering is developed by the doctoral coordinator in collaboration with the doctoral student, taking into account his or her aspirations regarding the development of the chosen research topic.
During the admission stage, doctoral students choose their research topic from those proposed by their doctoral supervisors and published on the SDI website (https://www.unitbv.ro/cercetare/studii-doctorale/domenii-de-doctorat-si-teme.html). In many situations, the definition of a research topic is previously carried out by the doctoral supervisor, either at the proposal or in collaboration with potential doctoral candidates. I.P.B.3.2.1 requested.

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.

Organizational component(UNITBV) has, within its 18 faculties, an adequate teaching and research infrastructure for the development of university studies at the three cycles (bachelor's, master's, doctorate). To this material base is added the university's Research and Development Institute (ICDThttps://icdt.unitbv.ro/), with a total area of 14,850 sq m, where most of the doctoral education and research activities are carried out, within the 31 departments.
Research centers (https://icdt.unitbv.ro/ro/centre-de-cercetare.html) which houses all doctoral fields at the university. UNITBV also has two canteens-restaurants, as well as 13 student dormitories, totaling over 4,000 accommodation places.
University library (https://unitbv.ro/biblioteca.html) provides students with reading rooms with free shelf access and home loan services. Accessibility is both physical and digital.
Career Counseling and Guidance Center (CCOC) https://consiliere.unitbv.ro/) offers integrated services, which include tutoring, career guidance and counseling, conducts studies of the concordance between curricula and students' professional development needs, and provides specialized consulting.
Center for International Relations (https://www.unitbv.ro/studenti/erasmus/echipa-centruuli-de-relatii-internationale.html) develops partnerships and provides information on scholarships, mobilities and academic cooperation, and the Erasmus+ Office coordinates programs funded by the European Commission.
The e-learning platform (https://elearning.unitbv.ro/).
UNITBV implements concrete measures for equal access to education, including through adapted infrastructure (e.g. ramps, elevators, adapted toilets, accessible circulation) in the buildings. UNITBV promotes the inclusive approach, through guides, training and tools for personalizing support. In this regard, the project CNFIS-FDI-2024-F-0397 entitled "From access to success. Creating an accessible and inclusive academic environment for students with disabilities" should be mentioned (https://unitbv.ro/stiri-si-evenimente/176-stiri-si-evenimente/6663-concurs-de-idei-de-proiecte-crearea-unui-campus-disability-friendly.html), which aimed to create the institutional and educational framework to ensure inclusive and equitable, quality education for students with disabilities. This project also involved creative students from the university, to identify original and feasible solutions for access to education for all students, regardless of their learning needs.

✓ Recommendation

It is recommended to provide, through the library, relevant periodicals in the field of electrical engineering (physical/online), in relation to individual needs and the specifics of doctoral theses.

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 learning outcomes, obtained by doctoral students during the educational process related to PPUA-I engineering, are explicitly formulated in the curriculum and in the subject sheets (https://www.unitbv.ro/cercetare/studii-doctorale/stagiul-doctoral/planuri-de-invatamant-si-fise-de-disciplina.html), published on the SDI website. Also, the individual training program (explicitly requested attachment) provides the student with a clear picture of the teaching and scientific path during the doctoral preparation. The doctoral student's progress is periodically evaluated by the doctoral supervisor and the guidance committee.
Every year, the doctoral student presents an annual activity report to the committee, in which the research progress is evaluated. Also, starting with the 2025-2026 academic year, an evaluation is carried out in September of the first three academic years of the doctoral internship, by doctoral students who are

beneficiaries of a doctoral grant financed from the state budget and doctoral students with fees eligible to benefit from a doctoral grant. This evaluation aims to reallocate grants financed from the state budget according to performance criteria, according to the Methodology for the evaluation of the activity of doctoral students in order to reallocate doctoral grants financed from the state budget (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/studenti/Metodologie_realocare_granturi_doctorale_30.09.2025.pdf).
It was found that the learning outcomes are clearly structured for each discipline, in accordance with the ARACIS standards and CNC level 8. They are also correlated with the professional training needs of doctoral students in the field of Electrical Engineering. The assessment is clearly defined and is oriented towards increasing the scientific performance of the doctoral student.

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.

Within UNITBV, the individual doctoral program (PID) includes, in the first semester, doctoral training subjects, which are completed by exam or colloquium (according to the Doctoral School Curriculum) https://www.unitbv.ro/cercetare/studii-doctorale/stagiul-doctoral/planuri-de-invatamant-si-fise-de-disciplina.html), with a total of 30 credits. In the second semester, the PID of each doctoral student includes three specialized exams, established by the doctoral supervisor together with the doctoral student. These are completed by a written and/or oral exam. 10 credits are awarded for each exam. In the following years of doctoral studies (years 2-4), three specialized papers are provided within the PID, structured according to the research needs of each doctoral student. The completion of these papers is usually achieved through a presentation before the guidance committee, and following the evaluation, a grade is awarded. The exams and papers are carried out according to IS-5 Instruction on the manner of conducting the activity of doctoral students (https://www.unitbv.ro/documente/cercetare/doctorat-postdoctorat/metodologii-rapoarte/v2/IS-5-Instructione_derulare_activitate_doctorat-2022.pdf).
The individual doctoral program is developed taking into account the doctoral training needs of each doctoral student, in close correlation with the research topic. Each exam and paper is finalized by a written and/or oral defense before the academic integrity and guidance committee, and the result (grade or qualification) is recorded in the minutes registered at the Doctoral School. The external member of the guidance committee usually participates online using dedicated platforms for online conferences. The experience of recent years demonstrates that the training program, customized according to the needs of the doctoral student, provides the necessary results for efficient progress in doctoral training.
It was found that the procedure for completing doctoral studies includes two stages of presentation of the doctoral thesis by the doctoral student: the preliminary defense and the pre-defense, according to Instruction IS-8 on the completion and defense of the doctoral thesis (https://unitbv.ro/documente/cercetare/doctorat-postdoctorat/Instruc.iuni/IS-8_Instructione_privind_finalizarea_si_sustinerea_publica_a_tezei_de_doctorat.pdf).

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.

Admission to doctoral studies is carried out through a competition, according to an admission methodology developed annually, for each admission session. The methodology is developed/proposed by C-SDI, endorsed by CSUD and the Board of Directors and approved by the University Senate. For the academic year 2026-2027 (admission session September 2026), the admission methodology was approved by the Senate in the meeting of 25.02.2026, being posted on the university website

(https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/studenti/Metodologie_admitere_doctorat_25.02.2026.pdf).
Information of interest regarding admission, including the topics put up for competition at the proposal of the doctoral supervisors, the number of places financed from the budget and with a fee, respectively, are also posted on the doctoral school website (https://www.unitbv.ro/cercetare/studii-doctorale/admitere/admiterea-la-studii-de-doctorat.html). Logistical support for the doctoral admission process in IOSUD-UNITBV is carried out through the online applicationhttps://apps.unitbv.ro/inscrieri/public/index.php.
Doctoral research topics (https://www.unitbv.ro/cercetare/studii-doctorale/domenii-de-doctorat-si-teme.html) proposed annually by the doctoral supervisors in the field of Electrical Engineering are brought to the attention of potential candidates by publishing them on the doctoral school website, both in Romanian and in English. The topics are closely correlated with the research expertise of the coordinators, and, where necessary, the doctoral supervisor may establish specific preconditions for each topic. Admission follows the provisions of the Methodology for Admission to University Doctoral Studies (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/studenti/Metodologie_admitere_doctorat_26.03.2025.pdf). Starting with 2024, admission was made according to two types: scientific doctorate (S) and professional doctorate (P).
It was found that, during the period 2021-2025, in the field of Electrical Engineering, 17 doctoral students were enrolled (2 in the last year).

✓ Recommendation

It is recommended to diversify the ways of attracting candidates to the doctoral program in the field of Electrical Engineering.

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.

It was found that the specialty exam for admission to the doctoral program evaluates the research capacity, theoretical skills and motivation of the candidates. The research topics (or themes, as the case may be) are proposed by the doctoral supervisors, taking into account the number of available places. The samples for the specialty exam and the corresponding bibliography are publicly communicated, by posting on the SDI website, in the Admissions - Doctoral Fields and Topics section (https://www.unitbv.ro/cercetare/studii-doctorale/domenii-de-doctorat-si-teme.html), and the selection criteria are clear and objective, respecting the principles of fairness and equal opportunities. The admission results are public, by posting on the SDI website, in the Admission – Results section (https://www.unitbv.ro/cercetare/studii-doctorale/admitere/rezultate.html), the validation of the results being done by C-SDI and CSUD.
The facilities offered by UNITBV for candidates with disabilities and/or special educational needs are clearly mentioned on the dedicated admission platform (https://admitere.unitbv.ro/, in the section Candidates with disabilities (https://admitere.unitbv.ro/admitere-pentru-alte-tipuri-de-candidati/68-candidati-straini/792-candidati-cu-dizabilitati.html). In special cases, when the physical presence of candidates is not possible (therefore, including for candidates with disabilities), the doctoral admission methodology provides for the possibility of organizing the specialty exam online (Art. 18 of the methodology). Another facility refers to the exemption from paying the registration fee of persons at risk of losing their ability to meet their daily living needs due to situations of illness, disability or poverty, based on a declaration on their own responsibility (Art. 15 paragraph (1) of the methodology).
UNITBV ensures admission conditions in compliance with the principles of transparency, fairness and equal opportunities. The institution has a Plan for ensuring gender equality (https://www.unitbv.ro/documente/despre-unitbv/info-interes-public/transparenta-insitutionala/planuri/plan-strategic/Planul_privind_asigurarea_egalitatii_de_gen_in_Universitatea_Transilvania_din_Brasov_22.02.2023.pdf), which supports an inclusive and non-discriminatory academic framework.

Also, within DSUD Electrical Engineering, students from various developing countries, such as Zimbabwe, Sudan or Cuba, carry out their doctoral work. They benefit from facilities offered by UNITBV, such as scholarships, dormitory accommodation and payment of tuition fees.

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.

Transilvania University of Brașov applies the Regulation on the professional activity of students (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/studenti/Regulament_activ_profesionala_stud_23.07.2025.pdf).
For the application of the provisions regarding the professional activity of students at the level of doctoral studies, there are internal regulations included in the following documents: Regulation on the organization and conduct of doctoral and postdoctoral studies; Instructions of the doctoral school; Methodology for the evaluation of the activity of doctoral students in order to reallocate doctoral grants financed from the state budget; Methodology for the recognition of study periods carried out abroad; Regulation for the recognition of study or practice periods carried out within the framework of mobility through the Erasmus+ program (https://unitbv.ro/).
Among the instructions regulating specific processes at the doctoral school level, relevant for this indicator are those relating to the doctoral internship (IS 4 - equivalence & recognition of credits, IS 5 - carrying out doctoral activity, IS 6 - interruption, extension and reduction of the doctoral internship, IS 7 - structure and content of the PPUA, IS 9 - reallocation of budgeted places) and respectively the completion of doctoral studies (IS 8 - completion and public defense of the doctoral thesis).
UNITBV offers students support, career counseling, consultancy and assistance for the learning process through the Career Counseling and Guidance Center (CCOC).https://consiliere.unitbv.ro/).
Each stage of doctoral training, starting with admission and up to the public defense of the doctoral thesis or the withdrawal/expulsion of the doctoral student, is supported by a methodology defined by the institution and applied by the structures involved in the doctoral process, including the SDI secretariat, teaching staff, doctoral supervisors and doctoral students. Within the field of electrical engineering, during the period 2021-2025, doctoral students were supported in the various stages of doctoral training: 17 doctoral admission candidates, 13 students in internship (including extension/interruption), 1 student in the finalization stage with the thesis in public transparency, 2 graduates, 3 withdrawn/expelled students.
Doctoral students participate in ERASMUS+ international mobilities, with the administrative support of the International Relations Center and the Erasmus+ program implementation team within UNITBV (https://unitbv.ro/studenti/erasmus/echipa-centruuli-de-relatii-internationale.html).
It was found that four doctoral students, within the field of Electrical Engineering, benefited from Erasmus+ support.

The indicator is: fulfilled.

Criterion B.8. Internationalisation process

Standard S.B.8.1. Internationalization Improving the quality of education and research through internationalisation actions.	
Indicator I.P.B.8.1.1	The organisational component carries out international cooperation actions supporting mobility of the members of its own community and collaboration in academic and research activities.

Transilvania University of Brasov is implementing an Internationalization Strategy (https://www.unitbv.ro/documente/internationalizare/Strategia_de_internationalizare_2024-2029_29.05.2024.pdfThus, in terms of attracting international students, UNITBV runs programs dedicated to doctoral students, such as the Doctoral Grants for UNITBV International Graduates (https://unitbv.ro/en/research/fellowships-and-scholarships/4382-doctoral-grants-for-unitbv-international-

graduates.html) and Transilvania Academic Scholarship (https://tas.unitbv.ro/), which supports their recruitment and integration into the academic community and research activities.
The Erasmus+ program is an essential pillar of the internationalization process, facilitating the mobility of students and teaching staff. UNITBV also finances the Transilvania Fellowship for Visiting Professors (https://unitbv.ro/en/research/fellowships/1539-transilvania-fellowship-for-visiting-professors.html) through which international experts can be invited to participate in various activities within the institution. At the same time, UNITBV's participation in the UNITA Alliance (https://www.unitbv.ro/afilieri-si-cooperari/unita-universitas-montium.html) offers an extensive framework for international cooperation, by funding mobilities and developing joint projects within the 12 partner universities from 7 European countries, contributing to the consolidation of academic and scientific collaboration at European level.
Within the field of Electrical Engineering, internationalization is materialized through the involvement of doctoral coordinators in international research collaborations, participation in academic networks and constant presence at prestigious international scientific events. The institutional strategy of attracting international doctoral students has also materialized through the enrollment in the field of electrical engineering of 6 foreign doctoral students in the field (from Zimbabwe, Cuba, Sudan and Tanzania), funded by UNITBV through the Doctoral Grants for UNITBV International Graduates and Transilvania Academica Scholarship programs.
At the same time, doctoral students in the field benefited from international mobilities through the Erasmus+ program (indicator B.3.1.1), as well as mobilities for participation in international scientific conferences (List of participations of doctoral students in international conferences - Annex 4https://aracisroro.sharepoint.com/:b:/s/evaluarfmo-21156/IQDMv91qrkPqQKkfkC68ziysAaOzxBOAlqcbQ1xe0hI8GzU?e=PJ04v5). Also, the internationalization of research activity in the field can be observed through articles published in collaboration with foreign authors.
An example of relevant international collaboration is the collaboration with Aalborg University (Faculty of Engineering and Science). It is worth noting here the joint programs between the doctoral coordinators Corneliu Marinescu and Ioan Şerban. In 2025, the doctoral student Musona Ronald carried out an Erasmus+ mobility at this university. Another example of collaboration initiated in 2025 is that with Kiel University (Germany), where the doctoral student Sora James carried out a 6-month research mobility, funded by the Erasmus+ program. Also, Prof. Louis Francois PAU (https://scholar.google.com/citations?user=JRgdI2MAAAAJ&hl=en) from Copenhagen Business School, invited professor at Transilvania University of Braşov by Mr. Prof. Borza Paul, gave a series of lectures, intended for EI doctoral students, between October 15-17, 2024. Also, Prof. Dr. Eng. Ioan Şerban and Assoc. Prof. Dr. Eng. Cătălin-Petrea Ion, participated (2024–2025), in a project funded by UNITBV.

✓ Recommendation

It is recommended to consolidate and expand existing international partnerships, increase the number of academic mobilities for doctoral students and teaching staff, as well as develop joint research projects within European university networks and alliances.

The indicator is: fulfilled.

Criterion B.9. Scientific research results

Standard S.B.9.1 Scientific research in the educational process Scientific research activities support students in achieving the learning outcomes.	
Indicator I.P.B.9.1.1	Learning based on scientific investigation and research results support and are capitalised upon in achieving the learning outcomes envisaged through the study programme.

The foundation for the development of advanced skills and original contributions in the assessed field of study is scientific research.
The entire doctoral training program is designed to support learning focused on scientific investigation, and research results are capitalized through articles published in specialized journals, in proceedings and through presentations at scientific conferences. SDI also organizes an annual conference addressed to doctoral students (DOCO https://www.unitbv.ro/en/research/doctoral-studies/2025-doctoral-

conference.html) which offers them the opportunity to disseminate the results of their doctoral research. The educational path of the doctoral student is oriented towards research from the first stages of doctoral training, aiming at the development of specific competencies in the field, both theoretical and practical. Dissemination of research results by publishing scientific articles in journals and volumes of international conferences, as well as participation in scientific events, represents an intensive component in the doctoral student's activity, thus offering him/her the opportunity to develop the competencies necessary for a career in academia. Doctoral students are encouraged to publish mainly in IEEE/WOS publications (journals and conferences). The research results are closely aligned with the minimum national standards required for obtaining the doctoral degree (https://www.unitbv.ro/documente/cercetare/doctorat-postdoctorat/contracte/Standarde_minimale_nationale_cf_OMEN_5110_din_2018-domenii_UNITBV.pdf). As presented in Annex 4 (https://aracisroro.sharepoint.com/:b:/s/evaluarfmo-21156/IQDMv91qrkPqQKkfkC68ziysAaOzxBOAlqcbQ1xe0hI8GzU?e=PJ04v5), the doctoral students in electrical engineering have published, as a result of their doctoral work, a number of 57 papers (56 articles, 1 patent), of which 43 have them as first authors. They have also participated in 26 conferences (mostly international and IEEE) and, annually, they also participate in the DOCO conference (https://www.unitbv.ro/en/research/doctoral-studies/2025-doctoral-conference.html), organized by SDI-UNITBV.

The indicator is: fulfilled.

Standard S.B.9.2. Scientific research pertaining to the objectives of the study programme The organisational component carries out scientific research activities aligned with the objectives of the evaluated study programme.	
Indicator I.P.B.9.2.1	The results of scientific research are visible at national and international level in that scientific domain, and capitalised upon in an adequate manner.

Transilvania University of Braşov has made significant progress in terms of the university's position in the national metaranking (from 12th place in 2019 to 5th place in 2024) https://www.edu.ro/sites/default/files/Metaranking_2024.pdf). This progress is also due to the efforts made in the field of doctoral activity, oriented towards the scientific development of doctoral students and the achievement of internationally relevant results. Doctoral students are encouraged to publish articles in scientific journals and in volumes of international conferences, and UNITBV runs several support programs dedicated to this endeavor. At the same time, research activity is supported through research projects (https://iesc.unitbv.ro/ro/cercetare/rezultatele-cercetarii.html) in which doctoral students are involved.
SDI also organizes the annual conference for doctoral students DOCO (https://www.unitbv.ro/en/research/doctoral-studies/2025-doctoral-conference.html), which offers them the opportunity to disseminate the results of their doctoral research.
The doctoral field of Electrical Engineering aims at the advanced training of doctoral students by developing scientific and academic skills, as well as by disseminating research results internationally, in particular by publishing articles in journals and in conference proceedings indexed by WOS and IEEE. Doctoral supervisors provide the necessary support to maximize the visibility of research results. Academic mobilities and international collaborations with prestigious universities abroad are also promoted, such as Aalborg University (Denmark), Kiel University (Germany).
List of publications and conference participations of doctoral students in Annex 4 (https://aracisroro.sharepoint.com/:b:/s/evaluarfmo-21156/IQDMv91qrkPqQKkfkC68ziysAaOzxBOAlqcbQ1xe0hI8GzU?e=PJ04v5) highlights the fact that the field of Electrical Engineering attaches great importance to the international dissemination of research results.
It has been found that valuable research, confirmed by publication in prestigious journals, is also financially stimulated, which leads to an increase in the score on quality indicators and the university's ranking in national and international rankings. This is considered an example of good practice.

The indicator is: fulfilled.

DOMAIN C. Quality management

Criterion C.1. Quality assurance strategies and procedures, including in the field of academic ethics and conduct, which involve students, employers and other stakeholders and are applied in a consistent, transparent manner

Standard S.C.1.1. Application Adequately implemented strategic directions, actions, and procedures	
Indicator I.P.C.1.1.1	The organisational component consistently carries out actions and applies procedures, proving their impact on improving the quality of education at the level of the study programme

UNITBV has a Quality Assurance Strategy (https://www.unitbv.ro/documente/despre-unitbv/info-interes-public/transparenta-insitutionala/planuri/calitate/Strategia_UNITBV_asig_calitatii_HS_nr_8_din_24.07.2024.pdf), developed in accordance with the provisions relating to the European Higher Education Area and taking into account the "European Standards and Guidelines, Part Ia" on internal quality assurance. The general objective for the period 2024-2029 is to strengthen the quality culture in the University, as a premise for the continuous improvement of teaching, scientific research and administrative processes, in order to increase and maintain them at high standards.
Quality assurance procedures (https://didactic.unitbv.ro/oficiul-de-asigurare-a-calitatii/documente-eu-ro-utbv-smc) are developed by the Quality Assurance Office (https://didactic.unitbv.ro/oficiul-de-asigurare-a-calitatii) in collaboration with process managers and approved by the Board of Directors.
In IOSUD-UNITBV a quality assurance policy is applied and the institutional framework is created that allows the implementation of internal quality assurance activities in a systematic manner, by involving management structures at all levels, quality assessment and assurance structures, teaching staff, students and other categories of staff. At the SDI level there is a quality management system based on a package of specific instructions (annexes to the Regulations of the Interdisciplinary Doctoral School https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/studenti/Regulamentul_SDI_30.09.2024.pdf), developed / periodically revised by C-SDI and approved by CSUD, which regulate the main aspects of the doctoral activity, the way in which specific processes are carried out / resolving various situations. The instructions are posted on the SDI website (https://www.unitbv.ro/cercetare/studii-doctorale/regulamente-metodologii-rapoarte/instructiuni-specifice.html).

The indicator is: fulfilled.

Standard S.C.1.2. Stakeholder engagement The HEI proves that it engages the stakeholders who have relevant activity in applying the procedures.	
Indicator I.P.C.1.2.1	The opinions of the members of its own community and of other stakeholders are taken into account in the procedure implementation process.

Quality assurance procedures are applied in all faculties and structures of the university. The responsibility lies with the process managers, namely the quality assessment and assurance committees at the departmental level (CEAC-D) or the university level (CEAC-U).
Upon graduation, doctoral students are consulted on the entire doctoral stage, based on the Specific Procedure: Communication with graduates. During the period 2021-2025, 173 doctoral students responded to this questionnaire, which has a dual purpose: (i) improving quality in education and (ii) obtaining information for further collaboration with graduates: https://chestionare-alumni.unitbv.ro/#/selectare.
The records obtained following the application of the procedures provide relevant information regarding the involvement of members of the academic community and other stakeholders in the conduct of:
- the teaching process: development of curricula and subject sheets, evaluation of teaching staff by students, peer evaluation, evaluation by the department director, annual evaluation of the doctoral field (https://www.unitbv.ro/cercetare/studii-doctorale/regulamente-metodologii-rapoarte/rapoarte-autoevaluare-domenii-doctorat.html);
- research activity (FRACS and CNATDCU sheets – within the new platform https://academics.unitbv.ro/);
- surveying the opinion of doctoral students regarding doctoral training processes.

Student opinion survey tools for the various services offered are available in both Romanian and English (for international students).
CSUD (https://www.unitbv.ro/cercetare/studii-doctorale/despre-noi/csud) and C-SDI (https://www.unitbv.ro/cercetare/studii-doctorale/despre-noi/echipa-sdi), include representatives of teaching staff, doctoral coordinators, the economic environment and doctoral students.
Student opinion polls are available in both Romanian and English (for international students). They are also included in the annual reports (https://www.unitbv.ro/cercetare/studii-doctorale/regulamente-metodologii-rapoarte/rapoarte-autoevaluare-domenii-doctorat.html) which analyzes the activity of the doctoral field by CSUD.

The indicator is: fulfilled.

Criterion C.2. Functionality of education quality assurance structures, including in the field of academic ethics and conduct, according to the law

Standard S.C.2.2. Operation Quality assurance and academic ethics and conduct organisational structures adequately perform their specific role and functions.	
Indicator I.P.C.2.2.2.	The academic ethics commission operates based on the regulation approved by the University Senate, and performs actions that are compliant with the law, independently from any other structure or person in the higher education institution.

University Ethics Commission (CEU) https://www.unitbv.ro/despre-unitbv/informatii-de-interes-public/comisia-de-etica-universitara.html), carries out its activity in accordance with the Code of University Ethics and Deontology (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/carta-universitatii/Carta_UNITBV_2024_18.12.2024_site.pdf) and with the Regulation on the organization and functioning of the commission (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/etica/Regulamentul_Comisiei_de_etica_universitara_18.12.2024.pdf).
CEU analyzes all notifications regarding deviations from university ethics, its decisions being given through committee decisions based on case reports prepared by analysis committees appointed at the level of the ethics committee. CEU decisions are presented to the Board of Directors and the University Senate. Annually, CEU prepares a report summarizing the activity (https://www.unitbv.ro/despre-unitbv/informatii-de-interes-public/comisia-de-etica-universitara/rapoarte-ale-comisiei-de-etica-universitara.html), published on the university website.
Within the doctoral field of Electrical Engineering, no student and no teaching staff/doctoral supervisor was the subject of any complaint to CEU. Doctoral students are informed about the legal implications of research activity within the Ethics and Academic Integrity framework and through the university's code of ethics (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/carta-universitatii/Carta_UNITBV_2024_18.12.2024_site.pdfThe procedure for completing doctoral studies also includes a stage of Conducting a Similarity Analysis (https://unitbv.ro/documente/cercetare/doctorat-postdoctorat/Instruc.iuni/IS-8_Instructione_privind_finalizarea_si_sustinerea_publica_a_tezei_de_doctorat.pdf).
It was found that all members of the UNITBV academic community, including doctoral students, have access to the Turnitin similarity software, integrated into the platform. https://elearning.unitbv.ro/.

The indicator is: fulfilled.

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.

UNITBV applies the Regulation on the organization and conduct of doctoral and postdoctoral university studies (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-

universitatii/studenti/Regulament_desfasurare_studii_doctorat_postdoctorat_30.09.2024.pdf). According to it, the establishment of a new doctoral field is done at the request of the faculty in question, with the opinion of the C-SDI & CSUD and the approval of the university Senate. IOSUD-UNITBV has internal quality assessment mechanisms focused on the mission and objectives of doctoral studies, their content and curricula, the results of research carried out by doctoral supervisors and doctoral students, the material base available to doctoral students, the methods of monitoring the progress of doctoral students and their degree of involvement in the study program. In this regard, the following periodic internal evaluation methodologies were developed (by CSUD, in consultation with the doctoral school, with the opinion of the Board of Directors and the approval of the Senate) and applied: Methodology for periodic internal evaluation of doctoral fields (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/angajati/Metodologia_evaluare_domenii_doctorat_24.07.2024.pdf), Methodology for periodic internal evaluation of the activity of doctoral supervisors (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/angajati/Metodologia_evaluare_activitate_conducatori_doctorat_24.07.2024.pdf) and - Methodology for evaluating the activity of doctoral students in order to reallocate doctoral grants financed from the state budget (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/studenti/Metodologie_realocare_granturi_doctorale_30.09.2025.pdf).
Internal evaluation processes are carried out in compliance with the principles of impartiality and transparency, all specific aspects, including the calendar and evaluation criteria, being brought to the attention of all members of the doctoral school (doctoral supervisors, doctoral students). For example, the calendar of implementation and the list of indicators targeted at the most recent internal evaluation process of doctoral fields are included in the annex to CSUD Decision no. 198 / 19.01.2026 (https://www.unitbv.ro/documente/cercetare/doctorat-postdoctorat/hotarari-csud/Hotararea_nr_198.pdf).
Internal evaluation reports are analyzed/approved by C-SDI and CSUD, and are subsequently posted on the SDI website, in the Regulations, Methodologies, Reports section (https://www.unitbv.ro/cercetare/studii-doctorale/regulamente-metodologii-rapoarte.html).
The CSUD ensures monitoring of compliance with internal evaluation procedures.

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.

The internal evaluation team of study programs is composed of teaching staff and students, but representatives of employers or graduates may also participate. Also, within the CSUD (https://www.unitbv.ro/cercetare/studii-doctorale/despre-noi/csud) and the SDI Council (https://www.unitbv.ro/cercetare/studii-doctorale/despre-noi/echipa-sdi) includes members from all relevant categories: teaching staff, doctoral supervisors, representatives of the economic environment and doctoral students. The doctoral fields are internally evaluated annually, based on indicators established by the Methodology for the internal evaluation of doctoral fields (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/angajati/Metodologia_evaluare_domenii_doctorat_24.07.2024.pdf), the results being included in a self-assessment report of the field (https://www.unitbv.ro/cercetare/studii-doctorale/regulamente-metodologii-rapoarte/rapoarte-autoevaluare-domenii-doctorat.html).
At the UNITBV level, the aim is to involve community members and provide relevant feedback, which will allow the orientation of measures towards an adequate training of doctoral students, in accordance with current professional needs. Maintaining a close link with the economic and academic environment, at national and international level, ensures the relevance of the actions undertaken. These links are achieved through doctoral students, who are employed in companies operating in fields close to the one of study, as well as through the collaborations of doctoral supervisors with partners from the economic and academic environment.

✓ Recommendation

Maintaining the collaborative relationship with the economic environment in the future, adapting doctoral theses taking into account the requirements of the economic environment.

The indicator is: fulfilled.

Criterion C.4. Procedures for the periodic evaluation of the quality of the activities of teaching staff, auxiliary teaching staff, and administrative staff

Standard S.C.4.1. Procedures Applying the methodologies and procedures contributes to improving the quality of the staff's activities.	
Indicator I.P.C.4.1.1	The organisational component analyses the results of the students' biannual evaluation of teachers.

Starting with 2017, a specific mechanism for collecting feedback from doctoral students (also in English from 2022) was implemented regarding PPUA I. The consultation of doctoral students (under the protection of anonymity) was carried out annually, online, and during the reporting period, as follows: 2022 (31 respondents), 2023 (52 respondents), 2024 (46 respondents), 2025 (42 respondents); for the academic year 2025-2026, the consultation is ongoing at the date of writing this report.
The consultation of doctoral students covers the following aspects (criteria): C1: Assessment of the PPUA I transversal competences module - with 6 sub-criteria (1.1-1.6) relating to the content of the subjects, the relevance of the competences formed, the performance of the teaching staff, the number of hours - time budget, the form of evaluation and the organization of the activity by the SDI, in a grading system from 1 to 5, in which 1 means inadequate, and 5 - adequate; C2: Overall assessment of the usefulness of the PPUA I transversal competence module, on a scale from 1 to 10, with the meaning of 1 – useless and 10 – very useful; C3: Recommendations / proposals regarding the disciplines in PPUA 1: disciplines that should be replaced, disciplines that should be introduced, other suggestions: Instruction IS-7 on the structure and content of PPUA I, form F2: https://www.unitbv.ro/cercetare/studii-doctorale/stagiul-doctoral.html.
Upon graduation, doctoral students are consulted on the entire doctoral stage, based on the Specific Procedure: Communication with graduates. During the period 2021-2025, 173 doctoral students responded to this questionnaire, which has a dual purpose: (i) improving quality in education and (ii) obtaining information for further collaboration with graduates: https://chestionare-alumni.unitbv.ro/#/selectare.
Within the field of Electrical Engineering, during the period 2021-2025, there was a relatively small number of questionnaires completed by doctoral students and graduates, but the results obtained provided positive feedback regarding doctoral studies.

✓ Recommendation

Implement targeted awareness campaigns for doctoral students in the Electrical Engineering domain to explain how their feedback is used for institutional improvement, addressing the current "relatively small number" of respondents. Review the evaluation schedule to ensure it is conducted biannually (after each semester of the PPUA program), aligning the practice with the specific requirement of the performance indicator. Provide doctoral students with a summary report of the evaluation results and a list of "Actions Taken" to demonstrate that their input leads to tangible changes in teaching or curriculum design. Further integrate the Form F2 (proposals for subject replacements) into the Academics platform to automate the reporting of student-led curricular improvements to the C-SDI.

The indicator is: partially fulfilled.

Criterion C.5. Systematically updated databases on internal quality assurance

Standard S.C.5.1. Databases The HEI uses databases to support internal quality assurance activities.	
Indicator I.P.C.5.1.1	The organisational component systematically collects and analyses data required for the internal quality assurance process.

Transilvania University of Brasov has a Strategy for digital transformation in the fields of education, research and administration (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/generale/2._Strategia_de_transformare_digitala_UNITBV.pdf), developed in accordance with national and European strategic documents on the digitalization of education. IT systems for the economic management of faculties/departments/study programs (GESFO) and other specific applications for

scientific research processes (FRACS – within the ACADEMICS platform) were implemented https://academics.unitbv.ro/), evaluation of teaching staff performance, secretariat, administrative processes such as timetable development, establishment of classroom occupancy; evaluation of research activity, payment of tuition fees, evaluation of teaching activity by students, single enrollment register and other specific applications for secretariat processes.
All members of the university community benefit from internet access through the Campus Wi-Fi and Eduroam networks (https://www.unitbv.ro/servicii-it.html), and have access to relevant information regarding the organization's activity through the intranet platform.
The digitalization of processes involved in quality assurance is a priority within UNITBV, as provided for in the Digital Transformation Strategy of Transilvania University of Brașov (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/regulamentele-universitatii/generale/2._Strategia_de_transformare_digita la_UNITBV.pdf).
The SDI Secretariat has a Records System (http://doctorat.unitbv.ro/) of doctoral students and their course, which also ensures the possibility of direct access to information regarding the personal situation for doctoral students and doctoral supervisors, without jeopardizing the security of the stored data and contravening regulations regarding the protection of personal data and ensuring confidentiality.
ACADEMICS platform (https://academics.unitbv.ro/) offers increased flexibility in collecting data related to the research activity of members of the academic community, such as generating the FRACS annual research results reporting sheet, generating the CNATDCU sheet, etc.

The indicator is: fulfilled.

Criterion C.6. Transparency of information of public interest, including those regarding the study programmes and domains offered, and transparency regarding the related certificates, diplomas and qualifications

Standard S.C.6.1. Transparency The organisational component ensures transparency of information, as required by the law.	
Indicator I.P.C.6.1.1	The organisational component ensures publication and access to information of public interest regarding the evaluated study programme.

Within UNITBV, access to public information is made in accordance with the legislation in force. The transparency of information regarding the services offered by the university and their quality is ensured in various ways, through actions coordinated at the institutional level, but, first of all, through the university's website (http://www.unitbv.ro/), the IESC faculty website (https://iesc.unitbv.ro/). Another way of presenting information of public interest is through various promotional actions through mass media or social media.
Information regarding doctoral studies is published on the website of the Interdisciplinary Doctoral School (https://www.unitbv.ro/cercetare/studii-doctorale.html), which are updated regularly. The information required for international doctoral candidates is also provided in English.
Through the mechanisms implemented at the SDI level, the field of Electrical Engineering offers candidates for admission to the doctoral program, doctoral students in internship and doctoral coordinators access to the information necessary to carry out doctoral training under optimal conditions. The SDI website provides information structured into different sections of interest (admission, doctoral theses, doctoral supervisors, forms of financing for Romanian and foreign doctoral students, fees, regulations, etc.). Doctoral theses and CVs of supervisors in the field (https://www.unitbv.ro/cercetare/studii-doctorale/domenii-de-doctorat-si-teme.html) are updated annually and provide potential candidates with relevant information for choosing the topic and supervisor. The academic performances of the doctoral supervisors are publicly available on international platforms (IEEEXplore, Google Scholar, Scopus, ORCID) and in different sections of the UNITBV website (UNITBV Community, Doctoral Supervisors, ACADEMICS-IESC). The research infrastructure serving the field of Electrical Engineering is detailed on the ICDT website of the SEA center (https://icdt.unitbv.ro/ro/centre-de-cercetare/sisteme-electrice-avansate.html).

The indicator is: fulfilled.

Indicator I.P.C.6.1.2	The organisational component ensures transparent decision-making processes.

At UNITBV level, decisions are communicated transparently to the entire university community and are published on the university website (https://www.unitbv.ro/despre-unitbv/regulamente-si-hotarari/carta-universitatii-si-regulamente.html). At the level of the Interdisciplinary Doctoral School (SDI), communication is made on the group e-mail addresses of the doctoral supervisors (condstdrd@unitbv.ro) and doctoral students (doctoranzi-stagiu@unitbv.ro), all information of interest, including regulations, methodologies and specific instructions, being posted on the SDI website (https://www.unitbv.ro/cercetare/studii-doctorale.html). The decisions of the Council for Doctoral University Studies (CSUD) are published on the CSUD website (https://www.unitbv.ro/cercetare/studii-doctorale/despre-noi/csud) and are communicated to members of the community involved at the level of doctoral studies.
SDI ensures transparent communication of decision-making processes and transmits information to all participants involved through various communication channels, such as group addresses. The SDI website contains information addressed to doctoral students and coordinators and is constantly updated. Within the field of electrical engineering, the field coordinator maintains contact with the doctoral coordinators, in order to ensure adequate information on the decision-making processes of SDI and CSUD.
The faculty website also posts excerpts from the minutes of the Faculty Council meetings. This is considered an example of good practice.

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.

The organizational component ensures the external evaluation of doctoral fields periodically, once every 5 years, according to the regulations in force, following the Calendar for the internal evaluation process of doctoral fields, with the approval of the Board of Directors. The external evaluation is carried out by the Romanian Agency for Quality Assurance in Higher Education (ARACIS). The internal evaluation report (REI) is prepared by the field coordinator together with a working team. SDI and CSUD coordinate and support the field coordinators in carrying out the REI.
The internal evaluation process of the doctoral fields, preceding the request for their external evaluation, is carried out according to the calendar approved by the Council for University Doctoral Studies (CSUD). The transmission to ARACIS of the request to initiate the external evaluation procedures in order to maintain the accreditation of the doctoral field of electrical engineering was approved by the Board of Directors through HCA no. 37/17.02.2026 (https://www.unitbv.ro/documente/despre-unitbv/regulamente-hotarari/hotarari-consiliu-administratie/2024-2029/HCA_37_17.02.2026.pdf).
The last external evaluation of the doctoral field of electrical engineering was carried out in 2021, the decision of the ARACIS Council being to maintain accreditation, and the external evaluation report and the interim evaluation report are available on the ARACIS website (https://www.aracis.ro/dsud/inginerie-electrica-iosud123/).

The indicator is: fulfilled.

IV. SWOT Analysis

Strengths:		Weaknesses:
✓ The availability of an advanced research infrastructure within the Research and Development Institute of Transilvania University of Braşov; ✓ Valuable research, confirmed by publication in prestigious journals, is also stimulated financially, which leads to an increase in the score on quality indicators and the university's	INTERNAL FACTORS	✓ Low interest from graduates in continuing their studies through doctoral programs; ✓ Employers are not particularly interested in hiring PhD graduates.

classification in national and international rankings; ✓ The organizational component ensures transparent decision-making processes, proven by the fact that, on the faculty's website, excerpts from the minutes of the Faculty Council meetings are posted.		
SWOT analysis		
Opportunities: ✓ Teaching in English creates the opportunity to attract international doctoral students; ✓ The research activity of doctoral students can produce results that can be published in prestigious international WoS journals and conferences.	EXTERNAL FACTORS	**Threats:** ✓ The low number of tenured doctoral supervisors; ✓ The decreasing interest of graduates in pursuing a doctorate; ✓ Outdated national legislation that disadvantages the quality of education.

V. The extent to which standards and performance indicators and recommendations are met

No.	Performance indicator	Extent to which it was fulfilled (F/PF/UF)	Recommendation
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	Increasing transparency and accessibility of information by restructuring the doctoral school's website, so that all documents are available in a unified, updated and bilingual form (Romanian & English).
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	There are no recommendations
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	There are no recommendations
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	There are no recommendations
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	It is recommended to attract new doctoral supervisors from among young teaching staff. It is also advisable to organize co-supervised doctoral programs, which represents another way of attracting highly qualified human resources within the DSUD Electrical Engineering.

No.	Performance indicator	Extent to which it was fulfilled (F/PF/UF)	Recommendation
6.	I.P.A.3.1.2 The HEI ensures professional and personal development for its staff.	Fulfilled	It is recommended to continue internal programs to stimulate and reward professional performance. It is also recommended to consider increasing the degree of collaboration with international partners, through mobility programs and exchange of experience.
7.	I.P.A.3.2.1 Recruitment procedures comply with the provisions of the law, and are established and carried out transparently.	Fulfilled	Within the field of Electrical Engineering, it is recommended to increase the number of tenured doctoral supervisors by prioritizing support for teachers who have the opportunity to obtain habilitation.
8.	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	There are no recommendations
DOMAIN B. Educational efficacy			
9.	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	It is recommended to continue adapting the program to the learning and research needs of doctoral students, following national and international developments in the field of Electrical Engineering. The learning outcomes, according to the new ARACIS specific standards, must be oriented primarily towards supporting research activity and developing skills for disseminating scientific results.
10.	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	There are no recommendations
11.	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	There are no recommendations
12.	I.P.B.3.1.2 The organisational component ensures opportunities for students to participate in academic mobility programmes organised in person and/or virtually.	Fulfilled	There are no recommendations
13.	I.P.B.3.2.1 The organisational component provides fair opportunities for students, in line with their potential and aspirations, taking into account the diversity of learning styles and abilities.	Fulfilled	There are no recommendations
14.	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	Fulfilled	It is recommended to provide, through the library, relevant periodicals in the field of electrical engineering (physical/online), in

No.	Performance indicator	Extent to which it was fulfilled (F/PF/UF)	Recommendation
	the individual learning needs, the study domain, the study cycle, and the form of organisation of the study programme.		relation to individual needs and the specifics of doctoral theses.
15.	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	There are no recommendations
16.	I.P.B.5.1.2 Achievement of the learning outcomes is checked in ongoing examinations and study completion exams.	Fulfilled	There are no recommendations
17.	I.P.B.7.1.1 The organisational component applies the admission procedures.	Fulfilled	It is recommended to diversify the ways of attracting candidates to the doctoral program in the field of Electrical Engineering.
18.	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	There are no recommendations
19.	I.P.B.7.2.1 The organisational component applies the regulations concerning the students' professional activity.	Fulfilled	There are no recommendations
20.	I.P.B.8.1.1 The organisational component carries out international cooperation actions supporting mobility of the members of its own community and collaboration in academic and research activities.	Fulfilled	It is recommended to consolidate and expand existing international partnerships, increase the number of academic mobilities for doctoral students and teaching staff, as well as develop joint research projects within European university networks and alliances.
21.	I.P.B.9.1.1 Learning based on scientific investigation and research results support and are capitalised upon in achieving the learning outcomes envisaged through the study programme.	Fulfilled	There are no recommendations
22.	I.P.B.9.2.1 The results of scientific research are visible at national and international level in that scientific domain, and capitalised upon in an adequate manner.	Fulfilled	There are no recommendations
DOMAIN C. Quality management			
23.	I.P.C.1.1.1 The organisational component consistently applies the procedures, and proves their impact on quality assurance.	Fulfilled	There are no recommendations
24.	I.P.C.1.2.1 The opinions of the members of its own community and of other stakeholders are taken into account in the procedure implementation process.	Fulfilled	There are no recommendations
25.	I.P.C.2.2.2 The academic ethics commission operates based on the regulation approved by the University Senate, and performs actions that are compliant with the law, independently from any other structure or person in the higher education institution.	Fulfilled	There are no recommendations
26.	I.P.C.3.1.1 The organisational component consistently applies the procedures, and proves their impact on quality assurance.	Fulfilled	There are no recommendations

No.	Performance indicator	Extent to which it was fulfilled (F/PF/UF)	Recommendation
27.	**I.P.C.3.1.2** Members of its own community and other stakeholders are involved in the procedure implementation process.	Fulfilled	Maintaining the collaborative relationship with the economic environment in the future, adapting doctoral theses taking into account the requirements of the economic environment.
28.	**I.P.C.4.1.1** The organisational component analyses the results of the students' biannual evaluation of teachers.	Partially Fulfilled	Implement targeted awareness campaigns for doctoral students in the Electrical Engineering domain to explain how their feedback is used for institutional improvement, addressing the current "relatively small number" of respondents. Review the evaluation schedule to ensure it is conducted biannually (after each semester of the PPUA program), aligning the practice with the specific requirement of the performance indicator. Provide doctoral students with a summary report of the evaluation results and a list of "Actions Taken" to demonstrate that their input leads to tangible changes in teaching or curriculum design. Further integrate the Form F2 (proposals for subject replacements) into the Academics platform to automate the reporting of student-led curricular improvements to the C-SDI.
29.	**I.P.C.5.1.1** The organisational component systematically collects and analyses data required for the internal quality assurance process.	Fulfilled	There are no recommendations
30.	**I.P.C.6.1.1** The organisational component ensures publication and access to information of public interest regarding the evaluated study programme.	Fulfilled	There are no recommendations
31.	**I.P.C.6.1.2** The organisational component ensures transparent decision-making processes.	Fulfilled	There are no recommendations
32.	**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.	Fulfilled	There are no recommendations

Summary table of performance indicators – Degree of fulfillment

Evaluation Domain	Number of Performance Indicators		
	Fulfilled	Partially fulfilled	Unfulfilled
Domain A. Institutional capacity	8	0	0
Domain B. Educational efficacy	14	0	0
Domain C. Quality management	9	1	0
Total	31	1	0

VI. Conclusions

Based on the information presented in this external evaluation report, the Evaluation Committee considers that the conditions are met to **maintain the accreditation** of the doctoral university study program in **Electrical Engineering**, organized by the **Transilvania University of Brasov, Faculty of Electrical Engineering and Computer Science**, given that out of a total of 32 indicators, 31 are fulfilled and 1 partially fulfilled. There are no unfulfilled performance indicators.

A decision is proposed and motivated:
Following the procedure for maintaining accreditation, the external evaluation committee proposes:

- Maintaining accreditation (MAC).

VII. Annexes

1. Annexes to the REI:
   - Anexa 1 – Lista doctoranzi 2021-2025;
   - Anexa 2 – Fise CNATDCU;
   - Anexa 3 – Cv si liste lucrari CD-PPUA;
   - Anexa 4 – Lista lucrari si participari conferinte doctoranzi IE.

2. Additional annexes:
   - Anexa I. Dovada evaluare UNITBV;
   - Anexa I.P.A.1.2.1.a RO+ENG;
   - Anexa I.P.A.1.2.1.b RO+ENG;
   - Anexa I.P.B.3.2.1 Programe individuale de pregatire.

3. Visit annexes:
   - Anexa – Fise disciplina;
   - Anexa – Mobilitati doctoranzi;
   - Anexa – Plan invatamant.

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

Instituţia de învăţământ superior/Organizaţia furnizoare de educaţie/ Higher Education Institution / Education Provider Organization: Universitatea Transilvania din Brasov / Transilvania University of Brasov

Şcoala doctorală/ Doctoral School: Școala Doctorală Interdisciplinară / Interdisciplinary Doctoral School

Domeniul de doctorat/ Doctoral Domain: Inginerie Electrică / Electrical Engineering

Obiectivul evaluării externe/ The objective of the external evaluation: *(autorizare de funcționare provizorie/acreditare/menținerea acreditării domeniului de doctorat)* menținerea acreditării domeniului de doctorat

Perioada vizitei de evaluare/ The evaluation period: *7–9 septembrie 2026 / 7–9 September 2026*

Comisia de experţi evaluatori ai ARACIS/Evaluation panel:

Nr./No.	Numele şi prenumele/ Last Name and First Name	Calitatea/Team role
1.	Prof. dr. ing. ENACHE Sorin	*Membru - Cadru didactic RNE*
2.	Prof. dr. ing. TIHOMIR Latinović	*Membru - Evaluator internațional RNE-I*
3.	Ing. ILIE Ana Lavinia	*Membru - Student doctorand RNE-S*

Reprezentantul IÎS/OFE:

Nr./No.	Numele şi prenumele/Last Name and First Name	Calitatea/Team role
1.	Prof. dr. ing. SERBAN Ioan	*Persoană de contact/Contact person*

Intervalul orar/ *Hour*	Activități de evaluare/ *Evaluation activities*	Participanți/ *Participants*	Locație/*Location* /Listă participanți/*List of Participants*
Luni / *Monday*, 07.09.2026			
17:00-18:00	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*	- Comisia de experți evaluatori ai ARACIS/ *Panel members* - Echipa care a realizat REI/ *Team that has drafted the IER*	Corpul N / Sala NP18 / str. Politehnicii nr 1 Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**: - Coordonator domeniu doctorat Inginerie Electrică) / Coordinator of the Electrical Engineering Doctoral Program - Prodecan cu activitatea didactică și asigurarea calității / Vice Dean for Teaching and Quality Assurance - Coordonator Centrul de Cercetare Sisteme Electrice Avansate / Coordinator of the Advanced Electrical Systems Research Center
18:00-18:30	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*	Corpul N / Sala NP18 / str. Politehnicii nr 1
Marți / *Tuesday*, 08.09.2026			

9:00 - 9:30	**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*	Corpul N / Sala NP18 / str. Politehnicii nr 1
9:30 – 10:00	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*	Corpul N / Sala NP18 / str. Politehnicii nr 1 Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**: - Director al Școlii Doctorale Interdisciplinare / Director of Interdisciplinary Doctoral School - Decan al Facultatii de Inginerie Electrica si Stiinta Calculatoarelor / Dean of the Faculty of Electrical Engineering and Computer Science - Coordonator domeniu doctorat inginerie electrica / Coordinator of the Electrical Engineering Doctoral Program
10:00 – 11:30	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*	Institutul de cercetare al UNITBV / L4 / str. Institutului nr 10. Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting** - Coordonator Centrul de Cercetare Sisteme Electrice Avansate / Coordinator of the Advanced Electrical Systems Research Center - Prof. dr. ing. S. I. - Sef.lucr. dr. ing. C. M. D.

11:30-11:45	Pauză/ *Break*		
11:45 – 12:15	Întâlnirea comisiei de experți în evaluarea externă a calității cu **responsabilii centrelor/laboratoarelor de cercetare** / *Meeting of the external quality evaluation experts' panel with the staff in charge with the research centres/laboratories*	- Comisia de experți evaluatori ai ARACIS/ *Panel members* - Responsabilii centrelor/laboratoarelor de cercetare/ *Staff in charge with research centres/laboratories*	Institutul de cercetare al UNITBV / L4 / str. Institutului nr 10. Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**: - Coordonator centru de cercetare / Research Center Coordinator - Responsabil Lab. electronica de putere pentru RES si microretele / Lab. power electronics for RES and microgrids - Responsabil Lab. Sisteme de stocare / Storage systems - Responsabil Lab. nanostructuri si senzori magnetici / Nanostructures and Magnetic Sensors
12:15 – 13:00	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*	- Comisia de experți evaluatori ai ARACIS/ *Panel members* - Cadre didactice conducători de doctorat/ *Teaching staff who are PhD supervisors*	Institutul de cercetare al UNITBV / L4 / str. Institutului nr 10. Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**: - Prof. dr. ing. S. I. - Prof. dr. ing. H. E. - Prof. dr. ing. M. C. - Prof. dr. ing. B. P. - Prof. dr. ing. F. A. - Conf. dr. ing. V. M.
13:00 – 14:00	Pauză de prânz/ *Lunch*		
14:00 - 14:30	Întâlnirea comisiei de experți în evaluarea externă a calității cu membri ai **Comisiei de etică**	- Comisia de experți evaluatori ai ARACIS/ *Panel members*	Corpul N / Sala NP18 / str. Politehnicii nr 1

	universitară/ *Meeting of the experts panel with members of the University Ethics Committee*	- Membri ai Comisiei de etică universitară/ *Members of the University Ethics Committee*	Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**: - Membru Comisie de Etică Universitară / Member of the University Ethics Committee - Presedinte Comisie de etică a Facultății IESC / Chair of the IESC Faculty Ethics Committee
14:30 – 15:00	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*	- Comisia de experți evaluatori ai ARACIS/ *Panel members* - Reprezentanți ai structurilor organizatorice în domeniul asigurării calității/ *Representatives of quality assurance organisational structures*	Corpul N / Sala NP18 / str. Politehnicii nr 1 Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**: - Coordonator - Oficiul de Asigurarea Calității/ Coordinator - Quality Assurance Office - personal de suport administrativ - activități de asigurarea calității în cadrul Școlii doctorale/ Administrativ suport staff - quality assurance activities within the Doctoral School
15:00 – 15:45	Întâlnirea comisiei de experți în evaluarea externă a calității cu **studenți**[1] **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*	Corpul N / Sala NP18 / str. Politehnicii nr 1 Lista persoanelor care vor participa la întâlnire/ List of participants attending the meeting: Nume doctorand / Name PhD student (an inmatriculare / year of Enrolment) - M. R. A. (2021) - M. L.-A. (2022) - R. A. V. (2022) - C. G. C. (2023)

[1] 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.

			- S. P.-M. (2023) - S. J. K. (2023) - M. R. S. (2024) - I. R. F. (2024) - O. M. (2024) - C. A. (2025) - F. A. (2025)
15:45-16:00	Pauză/ *Break*		
16:00-16:45	Întâlnirea comisiei de experți în evaluarea externă a calității cu **absolvenți**[2,3] ai DSUD/ *Meeting of the external quality evaluation experts' panel with alumni*[4] *of the DSUD*	- Comisia de experți evaluatori ai ARACIS/ *Panel members* - Absolvenți ai domeniului de studii evaluat/ *Graduates*	Corpul N / Sala NP18 / str. Politehnicii nr 1 Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**: Nume/Name (an absolvire/ year of graduation) - M. R. (2026) - E. D. J. (2026) - C. V. (2025) - M. C. (2024)
16:45 – 17:30	Întâlnirea comisiei de experți în evaluarea externă a calității cu **angajatori** ai absolvenților DSUD/ *Meeting of the external quality evaluation experts' panel with employers*[5] *of the DSUD alumni*	- Comisia de experți evaluatori ai ARACIS/ *Panel members* - Angajatori/ *Employers*	Corpul N / Sala NP18 / str. Politehnicii nr 1 Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**: - Director Functional Verification - NoBug/Infineon - Technical Project Manager - Siemens Industry Software

[2] Se va evita invitarea absolvenților care sunt angajați ai IÎS sau ai OFE, după caz.
[3] Nu este obligatorie în cazul autorizării domeniilor de studii universitare de doctorat

[4] Avoid inviting alumni who are also staff of the HEI or members of the Romanian Academy, as applicable.
[5] Avoid inviting employers who are also staff of the HEI or members of the Romanian Academy, as applicable.

			- Director tehnic - Alpin Solar - Senior software engineer on embedded systems/field application engineer & technical trainer - Schaeffler Romania
17:30 – 18:00	**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*	Corpul N / Sala NP18 / str. Politehnicii nr 1
Miercuri / *Wednesday*, 09.09.2026			
09:00 - 11:00	Finalizarea activităților de evaluare/ *Completion of evaluation activities*	- Comisia de experți evaluatori ai ARACIS/ *Panel members*	Corpul N / Sala NP18 / str. Politehnicii nr 1
11:00- 12:00	Întâlnirea membrilor comisiei de experți evaluatori cu reprezentanții conducerii IÎS 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,*	- 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*	Corpul N / Sala NP18 / str. Politehnicii nr 1 Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**: - Decanul Facultății IESC / Dean of the Faculty IESC

	to communicate the conclusions of the evaluation process		- Coordonator domeniu doctorat Inginerie Electrica / Coordinator of the Electrical Engineering Doctoral Program

If deemed necessary, and depending on the type of doctoral program being evaluated, additional meetings may also take place, for example with representatives of:

- departments providing IT support, for instance regarding the organization of online activities
- departments for international relations and student mobility
- the Counseling and Career Guidance Center, etc.

Prepared by,

Prof.dr.ing. ENACHE Sorin

Prof.dr.ing. SERBAN Ioan