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. 10
la Hotărârea Consiliului ARACIS nr. 318/H/22.10.2026

Anexa 10.1

DATE DE IDENTIFICARE	
Instituţia de învăţământ superior/organizaţia furnizoare de educaţie	Universitatea Tehnică „Gheorghe Asachi“ din Iaşi
Şcoala(ile) doctorală(e)	Școala Doctorală din cadrul Universității Tehnice „Gheorghe Asachi“ din Iaşi
Domeniul de studii universitare de doctorat (DSUD)	*Ingineria materialelor*
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 1 (CPS_C10) din 02.10.2026, propunerea de decizie fiind consemnată în PV nr. 5031/ 02.10.2026. 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

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.4.1.1., 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: - 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: 32 sunt îndepliniți, 0 parțial îndepliniți și 0 neîndepliniți* • *26 standarde: 26 sunt îndeplinite, 0 neîndeplinite* *și, astfel, prin aplicarea art. 63 din Metodologie decide că* ***standardele sunt ÎNDEPLINITE.***	
Decizia	Menținerea acreditării

The Romanian Agency for Quality Assurance in Higher Education



External Evaluation Report (REE) for the procedure for obtaining the maintenance of accreditation of Doctoral Study Domain

Higher Education Institution/Education Provider Organization:	"Gheorghe Asachi" Technical University of Iaşi
Doctoral School:	SD-TUIASI
Doctoral Domain:	Materials Engineering
The objective of the external evaluation:	Maintaining accreditation of DSD

Members of the ARACIS Evaluation Panel

No.	Last Name and First Name	Team role	Signature
1.	*ŢIEREAN Mircea Horia*	Expert evaluator	
2.	*KELEŞ Özgül*	International Expert	
3.	*NICA Ionuţ-Cosmin*	PhD Student Evaluator	

I. Introduction

The evaluators panel composed by Prof.dr.eng. Mircea Horia ȚIEREAN (Transilvania University of Braşov), Prof.dr.eng. Özgül KELEŞ (international expert -Technical University of Istanbul) and PhD student Ionuț-Cosmin NICA (National University of Science and Technology POLITEHNICA Bucharest), approved by the ARACIS Council through Decision no. 180/H/04.06.2026, has participated in period 07-08.09.2026, at the "Gheorghe Asachi" Technical University of Iaşi, for external quality assurance for the procedure for obtaining a maintaining accreditation (MAC) of Doctoral Study Domain **Materials Engineering**.

The founding document of the university was Decision No. 205,660 of December 3, 1937, issued by the Ministry of National Education; this act separated technical higher education from the jurisdiction of the University of Iaşi (founded in 1860) and established the "Gheorghe Asachi" Polytechnic School of Iaşi as a distinct technical higher education institution, being the only one authorized at the time to award the title of engineer. The "Gheorghe Asachi" Polytechnic Institute of Iaşi (TUIASI) was established through the 1948 education reform and operated until 1993, when, as part of the higher education reform in Romania, it became the "Gheorghe Asachi" Technical University of Iaşi on May 17, 1993. Today, TUIASI comprises 11 faculties, 60 Bachelor's degree programs (3 in English language), 76 Master's degree programs (10 in English language) and 40 Postgraduate professional training programs. TUIASI operates 27 research centers, 14 of which are accredited by the National Council for Scientific Research (CNCS), including 4 centers of excellence. Since 2023, TUIASI has been a member of the "INGENIUM" Alliance, a European university consortium comprising 10 prestigious higher education institutions across Europe.

According to its Charter, the "Gheorghe Asachi" Technical University of Iaşi "is a university dedicated to advanced research and education, whose mission is to carry out specific activities aimed at the creation, innovative application, and transfer of knowledge to society in the fundamental fields of engineering, architecture and urban planning, as well as in interdisciplinary and complementary fields, within the local community, at the regional, national, and international levels. TUIASI holds the 13th position among Romanian universities, as highlighted by the 2026 National Metaranking based on rankings published in 2025.

Since 2005, the Commission for Evaluation and Quality Assurance (CEAC) has been operating at the university level, and the Subcommissions for Evaluation and Quality Assurance have been operating at the level of faculties/departments/divisions. Since its establishment and to the present, the CEAC has assumed responsibility for developing, verifying, and approving procedures related to teaching activities, the evaluation and assurance of educational quality, which have been established and serve as the procedural foundation for core activities within the Procedures Manual.

TUIASI includes within its organizational structure the Council for Doctoral Studies (CSUD), which was established by Rector's Decision No. 2184 of October 9, 2012, and which initially oversaw ten doctoral schools operating at the faculty level: Automation and Computers; Construction and Installations; Mechanical Engineering and Industrial Management; Electrical Engineering, Energy, and Applied Computer Science; Electronics, Telecommunications, and Information Technology; Hydraulic Engineering, Geodesy, and Environmental Engineering; Chemical Engineering and Environmental Protection; Mechanical Engineering; Materials Science and Engineering; Textiles, Leather, and Industrial Management, which became Industrial Design and Business Management.

The mission of CSUD is to provide the necessary conditions for conducting doctoral studies-the highest level of university education-with the aim of developing human resources prepared for scientific research and integration into the highly skilled labor market. The doctoral programs offered by the CSUD Doctoral School fall under the category of scientific doctorates, with the goal of producing original, internationally relevant scientific knowledge based on scientific methods, and are offered exclusively as full-time programs.

The objectives of the CSUD are: (i) Developing integrated study programs in partnership with Romanian and European universities, leading to the award of joint degrees; (ii) Aligning doctoral studies with specific topics that are relevant to the economic and social context; (iii) Attracting additional funds to enable doctoral students with exceptional results to spend extended periods studying abroad, with a view to

obtaining a dual doctoral degree; (iv) Facilitating the awarding of scholarships by companies to selected doctoral students, with a view to their employment upon graduation in those companies; (v) Proposing new projects funded by Structural Funds; (vi) Continuously updating the CSUD website to attract as many doctoral students as possible to the Doctoral School of the Organizing Institution for Doctoral Studies (IOSUD); (vii) Increasing the internationalization of doctoral studies; (viii) Participating in European human resources development projects; (ix) Creating and maintaining training seminars that address complex issues of general interest to doctoral students.
By Senate Decision No. 347 of October 27, 2017, the process of merging 10 existing doctoral schools at TUIASI into a single doctoral school was initiated, and the school began operations following the Senate's decision of March 30, 2018. Since its establishment, SD-TUIASI has experienced steady growth, reflected in the increase in the number of doctoral advisors (132 as of January 1, 2021, and 164 as of January 1, 2026) and the diversification of research topics. In recent years, collaboration with national and international institutions has been strengthened. SD-TUIASI coordinates the activities of nine Doctoral Program Coordination Councils (CCPD), organized at the faculty level.
In accordance with ARACIS Council Decision No. 123 of December 16, 2021, following the periodic external evaluation of the IOSUD at the "Gheorghe Asachi" Technical University of Iaşi, accreditation was maintained for all 13 doctoral programs, one of them being Materials Engineering (IMat), within the Faculty of Materials Science and Engineering, the "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, and the Faculty of Mechanics.
The mission of the doctoral program in Materials Engineering is to train-through research-highly specialized personnel for research, development, and innovation activities; these are specialists who have mastered the relationship between the structure, properties, and applications of materials and who are prepared to enter a highly skilled labor market. The program achieves this by providing a creative and ethical environment conducive to academic study, advanced scientific research, interdisciplinary approaches, and the promotion of scientific collaborations at both national and international levels. To fulfill this mission, the primary objective of the doctoral program in Materials Engineering is the development of professional competencies and field-specific transversal skills, fostered through both advanced coursework and the program's scientific research components.

II. Methods used

For the external quality assessment aimed at maintaining the accreditation of the Materials Engineering doctoral field at TUIASI, the ARACIS evaluation committee analyzed the *Internal Evaluation Report (IER*), its annexes and additional documents requested before the onsite visit uploaded to the ARACIS platform, visited the facilities, and met with the leadership of the organizational unit, the team that prepared the IER, employers, alumni, doctoral students, doctoral supervisors in the field, research center coordinators, members of quality assurance bodies, and administrative staff of TUIASI and at the IOSUD level, in accordance with the visit schedule.
During the on-site evaluation, there were visited two research centers:

- The Materials Engineering Research Center (CECIM), comprising eight research laboratories:
  - Metallic Biomaterials Laboratory (BM),
  - Laboratory for Nonmetallic and Nonconventional Materials (MNN),
  - Thermal Analysis and Nanofluids Laboratory (ATN),
  - Research and Development Laboratory for Shape Memory Materials (CDMMF),
  - Surface Engineering Laboratory (IS),
  - Rapid Prototyping Laboratory by 3D Printing (PPI3D),
  - Laboratory for Design, Processing and Characterization of Metallic Materials (PPCMM)
  - Laboratory For Professional Noxes,
- The Mechanical Engineering and Materials Research Center (IMM), through the laboratory:
  - Laboratory of Advanced Materials, Technical Expertise and Electron Microscopy.

and the university library. Meetings also took place with the individuals scheduled according to the visit schedule.

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.

✓ Presentation of the state of facts:

At TUIASI, doctoral studies are organized in a Council for Doctoral Studies (CSUD) and a single Doctoral School (SD-TUIASI), which includes 13 doctoral fields, one of which is Materials Engineering. The procedures on which the activity is carried out are voted by the Senate, being maintained in accordance with national legislation. The students' activity is carried out according to the study contract, with the minimum standards for the award of the doctoral degree provided for in the annex to the contract.

✓ Analysis of the state of facts:

TUIASI has adequate organizational structures and management system, the operation of which is based on methodologies, regulations and procedures periodically reviewed in accordance with the law, to ensure the smooth running of all educational programs.

✓ Aspects that constitute best practice examples: No

✓ Recommendations: No

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.

✓ Presentation of the state of facts:

The opinions of IOSUD Council (CSUD), Doctoral School Council (CSD), Doctoral Program Coordination Council (CCPD - Materials Engineering), doctoral supervisors, faculty members, doctoral students, Faculty Council and University Senate, Quality Assurance Commission (CEAC), research laboratories, industrial partners and employers (BMT Aerospace, BMT IGW (Watteeuw), Grenzebach România, Vitesco/Schaeffler, Phinia, Mennekes Electric, ArcelorMittal, METINVEST TUBULAR IAȘI, Metaloterm, Sutic Metal, TriWall, Aumovio), national and international academic partners, ARACIS,

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

CNATDCU and the Ministry of Education and Research are collected for the formulation of proposals through periodic questionnaires, structured consultations and a formal mechanism.
The feedback thus obtained is analyzed at the level of the Doctoral School Council (CSD) and the Council for University Doctoral Studies (CSUD) and then implemented in rules, methodologies, procedures and curricula. As a result of these consultations, several procedures have been reviewed and updated in recent years to reflect suggestions received from the academic community and to ensure better alignment with the legislative framework and best practices in the field of doctoral studies. Additionally, there were presented stakeholder contributions to the adoption and review of methodologies, regulations, implementation procedures and curricula.

✓ Analysis of the state of facts:

Algorithm for adopting and reviewing methodologies, regulations and procedures: collecting opinions from members of the academic community, doctoral students and all stakeholders -> regulations and procedures are developed at the SD-TUIASI level -> reviewed and approved by CSUD/CMC -> approved by CEAC/CA -> approved by the University Senate.

✓ Aspects that constitute best practice examples: No

✓ Recommendations: No

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.

✓ Presentation of the state of facts:

At TUIASI to enable living and studying for the students there is a very well-managed system available. The university has modern educational and research facilities. They have been upgrading these facilities and making new investments to ensure adequate facilities (classrooms, dormitories and cafeterias, etc.) These facilities are equipped with the resources needed.
Tudor Vladimirescu student campus has an area of 137,148 sq m and has 21 dormitories. Most of their dormitories are renovated and a total of 7,609 students can stay in dormitories, and they have free internet access and cable TV. To provide high security, the campus is under surveillance with 55 video cameras and for the students staying in the dormitories there is an access control system available. They have an Accommodation Policy (https://www.tuiasi.ro/wp-content/uploads/2022/10/PO.PRS_.01-E1R7.pdf), this policy explains the management system. Priority for housing is available for the students (such as married, orphans, students with disabilities, or unmarried doctoral students with dependent children). If students classified under “budget” funding category (such as low-income families and rent off-campus housing) may receive monthly support.
Accommodation of the doctoral students is not limited to the academic year but the whole year. There are 7 libraries (Building A Library-the main campus-and 6 libraries at faculties). They have rich resources and infrastructure, reading rooms, circulation desks, and storage areas, and hold a total collection of 962,528 items (522,187 books, 129,332 journals, 5,042 special collection items (CDs, DVDs, microformats), and 305,967 technical documents. (https://biblioteca.tuiasi.ro/)
Cafeterias are affordable. There is a free medical clinic, and sport facilities are free for doctoral students (https://campus.tuiasi.ro/).

The university has a Career Center (https://www.consiliere.tuiasi.ro/) offering educational, vocational, and/or psychological counseling, as well as internships, complementary training programs, social integration initiatives and research opportunities.
TUIASI offer special facilities and even living solutions for students with disabilities. The university provides not only the safe and friendly lining environment by having interior ramps with side railings, accessible bathrooms with special grab bars and bathtubs, and rooms etc. on request (https://www.consiliere.tuiasi.ro/informatii-si-resurse/) a 50% reduction in fees for accommodation and meals in the cafeteria and dormitories without thresholds is being amended.
To secure the access of the doctoral students to the research facilities, TUIASI has a regulation (https://doctorat.tuiasi.ro/studii-de-doctorat/regulamente/). The doctoral students enrolled in the IMat program can conduct their research at CNCSIS-accredited research centers. TUIASI has state of the art centers and laboratories for research and the inventory of the assets, and their maintenance and investment plan are managed.

✓ Analysis of the state of facts:

CSUD and SD-TUIASI continuously work together to manage and monitor high-quality studying and living environment for the doctoral students. Students in the field of Materials Engineering benefit from a conducive environment and conduct their studies and research in lecture halls and laboratories equipped with state-of-the-art equipment. The indicators have been reported yearly in a report (https://www.tuiasi.ro/raport-privind-starea-universitatii/).

✓ Aspects that constitute best practice examples:

The establishment of the Talent Management Center, whose mission is to increase the employability of doctoral candidates and postdoctoral researchers by developing transferable competencies.

✓ Recommendations: No

The indicator is: fulfilled.

Standard S.A.2.2. Management of material resources The organisational components manage the movable and immovable assets used for the evaluated study programme/domain in an optimal, sustainable manner.	
Indicator I.P.A.2.2.1	The movable and immovable assets are properly maintained to ensure optimal conditions for studying, living and research, as well as for work.

✓ Presentation of the state of facts:

At TUIASI, a strict inventory of assets is carried out, an annual maintenance and investment plan, procedures and flows regarding the notification and resolution of faults and a dedicated budget for current repairs, capital repairs and modernizations. The maintenance of the material base is done through an integrated system: updated asset records, annual maintenance and investment plan, notification-intervention-reception procedures and a dedicated budget.
Performance is monitored through the percentage of spaces compliant with standards, the degree of preventive maintenance, the average time to remedy faults, the availability of critical equipment and the level of user satisfaction. Maintenance work is carried out preventively, based on a plan, and there is also a centralized record of recurring failures. For critical research equipment there are usage plans to balance availability rates, while respecting the inspection and eventual calibration schedule. Research laboratories are compliant spaces (safety, hygiene, temperature, lighting, ventilation), with an occupancy rate of 50% of the total.

✓ Analysis of the state of facts:

TUIASI properly maintains movable and immovable assets are properly maintained to ensure the necessary conditions for study, research and work. The movable assets are relatively new, with the latest acquisitions having taken place in 2026.

✓ Aspects that constitute best practice examples: No

✓ Recommendations: No

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.

✓ Presentation of the state of facts:

Within the IMat doctoral field at TUIASI, there are currently 15 doctoral supervisors supported by teaching and auxiliary staff; of these, 12 are full-time faculty members, 3 are associate supervisors, and none are external. Of them 12 are active (supervising now PhD students), with only one supervisor having more than 8 doctoral students in training. Of the doctoral supervisors, 14 meet the CNATDCU criteria.

These doctoral supervisors guide the 64 enrolled doctoral students (58 within the standard 4-year program and 6 in the extension/grace period). Of the 64 doctoral students, 26 receive the scholarship (+1 with Sudanese scholarship), 27 free tuition, and 10 pays for their studies.

The job list of 11 courses included in the Advanced University Studies Program of the Doctoral Study Domain in Materials Engineering contains full Professors who are accredited doctoral supervisors (PhD supervisors). The professional competencies of the teaching staff are proven by their CV, that can be found at https://doctorat.tuiasi.ro/conducatori-de-doctorat/.

✓ Analysis of the state of facts:

The teaching staff has the qualifications and professional competencies presented in the professors' CVs and list of publications. In the field of Materials Engineering at TUIASI, there are 15 doctoral supervisors whose CVs can be consulted here. Annex I.P.A.3.1.1._a_IMat presents the files for compliance with the CNATDCU criteria valid for the analyzed period. Annex I.P.C.9.2.1_c_IMat presents the publications of the PhD supervisors in the field of Materials Engineering at TUIASI.

✓ Aspects that constitute best practice examples: No

✓ Recommendations: No

The indicator is: fulfilled.

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

✓ Presentation of the state of facts:

TUIASI attaches particular importance to the continuous professional development of its human resources, recognizing the essential role of professional development in improving the quality of the educational and administrative process. In this regard, TUIASI includes in its development strategy concrete measures for the periodic improvement of staff, aiming at constant adaptation to the changing requirements of the academic environment and society: participation in research projects, mobilities, training courses and mentoring activities, summer schools, webinars, workshops, company and product presentations or exhibitions.

✓ Analysis of the state of facts:

TUIASI encourage and support the professional and personal development of their staff through Erasmus+ internships, participation in international conferences/symposia, and publication of scientific papers.

✓ Aspects that constitute best practice examples: No

✓ Recommendations: No

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.

✓ Presentation of the state of facts:

Teaching staff in Advanced University Studies Program are recruited based on their expertise, so as to offer doctoral students courses of the highest quality. Doctoral supervisors in the field of Materials Engineering are qualified (according to habilitation procedure PO.CSUD. 05) or have acquired the status of doctoral supervisor prior to Law No. 199/2023, being affiliated with the Doctoral School in accordance with affiliation procedure PO.CSUD.06. Procedure PO.CSUD.03, regarding the automatic recognition of doctoral supervisor status obtained at higher education or research and development institutions abroad, offers the possibility of attracting doctoral supervisors from abroad.

✓ Analysis of the state of facts:

TUIASI applies clear, transparent and legally compliant procedures for the recruitment and affiliation of doctoral supervisors, based on academic and scientific performance criteria. These mechanisms contribute to ensuring a qualified academic body and maintaining the quality of doctoral programs.

✓ Aspects that constitute best practice examples: No

✓ Recommendations: No

The indicator is: fulfilled.

Criterion A.4. Digitalisation of institutional processes

Standard S.A.4.1. Digital transformation The digital transformation process in the organisational component seeks to achieve administrative simplification and improve the quality of the services provided to the members of its own community, as well as to third parties.	
Indicator I.P.A.4.1.1	The organisational component uses IT tools in its own procedures, to improve access and provide good quality services for the members of its own community and the indirect beneficiaries of education.

✓ Presentation of the state of facts:

The digitization of institutional processes is carried out in accordance with TUIASI DIGITAL TRANSFORMATION STRATEGY. The level of computerization of the administration is compatible with that of the European higher education area: administrative services carry out their day-to-day activities, monitoring and reporting using specific software and are connected to the Internet. The IT infrastructure is developed at institutional level, with all members of the academic community having access from different devices and operating systems to: High-tech IT devices (computers, tablets, videoconferencing equipment and multimedia equipment); Broadband Internet access and access to applications/programs such as Microsoft Office, Microsoft Teams, MatLab, GitHub, Ansys, AutoCAD, Altium Education, etc., from various types of devices; Specific digital resources (virtual library, including access to databases on off-campus computers, cloud services, dedicated websites, open educational resources); IT platforms configured in accordance with the specificity of the study program.

The Doctoral Studies website contains all the information needed for the procedural steps and documents required for the educational process, as well as the website Talent Management Center, with a focus on developing research and transferable skills.

✓ Analysis of the state of facts:

Doctoral staff and students have access to a high-performance IT infrastructure with easy access, as well as learning resources that enable the educational process to be carried out in high-quality conditions. Through the dedicated electronic platform, doctoral students are provided with access to relevant information regarding their doctoral studies (grades, marks and credits obtained, form of education,

payment of fees, etc.), doctoral supervisors can access the up-to-date status of the doctoral students they supervise, and the doctoral school secretariat can extract data that serves as a basis for reporting.

- ✓ Aspects that constitute best practice examples: No
- ✓ Recommendations: No

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.

- ✓ Presentation of the state of facts:

The Materials Engineering doctoral program is designed to provide comprehensive training for future PhD graduates, in line with the academic and professional requirements of the field of Materials Engineering. The competencies acquired in both components of doctoral studies: the Advanced University Studies-based Training Program and the Individual Research Program are those required by Level 8 of the European Qualifications Framework (EQF) occupations. Those are focused on the development of advanced skills in scientific research and technological innovation (COD PO:CSUD.14). The course descriptions for the advanced university studies training program (PPUA, Year I) in the IMat field are presented on the web page.

- ✓ Analysis of the state of facts:

The learning outcomes are appropriate for the future professions of holders of the PhD in Materials Engineering degree. The targeted occupations, identified by reference to the Romanian Classification of Occupations (COR), primarily include materials science researcher (COR 214650), materials science research engineer (COR 214651), materials science research assistant (COR 214652), university teaching assistant (COR 231001), and project manager (COR 242101). Subject to accumulate professional experience and fulfilment of the applicable legal requirements, graduates may subsequently access positions such as university lecturer (COR 231003), associate professor (COR 231002), university professor (COR 231005), or extrajudicial technical expert (COR 214951).

- ✓ Aspects that constitute best practice examples: No
- ✓ Recommendations: No

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.

* The term “programmes” concerns the external quality evaluation for the study programmes contained in a master/doctoral domain. The term “programme” shall be used hereinafter.

Indicator I.P.B.2.1.2	The expected learning outcomes are correlated with the competences required by those occupations, according to the occupational standards and/or the European Skills, Competences and Occupations (ESCO).

✓ Presentation of the state of facts:

The Materials Engineering doctoral program at TUIASI is accredited in accordance with national legislation, and its educational and research activities are in line with TUIASI's mission of advanced education and research.

Through its mission and objectives, the doctoral program aims to achieve the educational ideal of higher education, which consists of forming an autonomous and balanced personality through the integral development of the individual and the adoption of a set of values essential for personal fulfilment, active participation in social life, social inclusion and sustainable integration into the labor market. The program's curriculum is designed to support the personal and professional development of doctoral students through the acquisition of professional and transversal skills in correlation with the COR targeted occupations. Expected learning outcomes for the program doctoral studies are defined in accordance with EQF level 8

✓ Analysis of the state of facts:

The learning outcomes, presented in the syllabi, are described in terms of the competences that graduates must acquire by completing the doctoral program and comply with the wording of the specific ARACIS 2025 standards in terms of knowledge, skills, responsibility and autonomy.

✓ Aspects that constitute best practice examples: No

✓ Recommendations: No

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.

✓ Presentation of the state of facts:

The organizational component of the doctoral program in the IMat field supports the principle of student-centered learning, through advanced courses, thematic seminars, and research activities in which the doctoral candidate defines their own learning objectives and plans the stages of the scientific project. Competencies are acquired through practical and autonomous experiences, supported by varied teaching strategies: case studies, presentations, workshops, individual mentoring, research projects, open experiments, collaborations with the business sector, and field-specific portfolios. The Curriculum includes all the activities in which the doctoral students are involved in defining their own learning objectives and planning the stages of scientific projects.

✓ Analysis of the state of facts:

The organizational component of the IMat doctoral program supports student-centered learning through advanced courses, thematic seminars, and research activities, in which the doctoral candidate defines their own objectives and plans the stages of the scientific project. Competency is acquired through practical experiences: case studies, workshops, individual mentoring, research projects, collaborations with the business sector, and field-specific portfolios.

The program ensures constant feedback and formative assessments, correlated with the final learning outcomes. The educational effectiveness of SD-TUIASI is reflected in a doctoral offer continuously updated in relation to labor market demands, active partnerships, a flexible curriculum, modern assessment methods, sustained scientific activity by doctoral supervisors, and responsible resource management. For IMat, these principles are applied through the personalization of the doctoral path, integration into research teams, interactive teaching methods, and continuous monitoring of progress, implemented through

decision-making structures (CSUD, CSD, CPPD), operational procedures (PO. CSUD.11, 13, 14, 17), and periodic feedback mechanisms from doctoral candidates and employers.

- ✓ Aspects that constitute best practice examples: No
- ✓ Recommendations: No

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.

- ✓ Presentation of the state of facts:

The IMat doctoral field benefits, within IOSUD-TUIASI, from a well-established organizational framework that ensures doctoral candidates' access to national and international academic mobilities, both physical and virtual, carried out through Erasmus+ KA131 agreements, bilateral partnerships, international research projects, and collaborations of doctoral supervisors. The procedural framework includes the institutional regulation on the organization and recognition of mobilities, their integration into the individual doctoral study plan, transparent selection/approval mechanisms, and formal recognition of the results obtained.
Mobilities include international research stays, INGENIUM summer/winter schools, participation in conferences and workshops, as well as virtual mobilities (online courses, collaborative activities, conferences). During the evaluated period, IMat doctoral candidates took part in both physical and virtual mobilities (details in Annex I.P.B.3.1.2_a_IMat). IOSUD-TUIASI allocates a minimum of 20% of doctoral grant funding to doctoral candidates' research activities, including mobilities and professional training; the situation of revenues and expenditures by financial year is presented synthetically below and in detail in Annex I.P.B.3.1.2_b_IMat.

- ✓ Analysis of the state of facts:

A functional and coherent institutional mechanism is found to exist, facilitating doctoral candidates' participation in mobilities relevant to doctoral research, contributing to scientific performance, the development of advanced competencies, and integration into international academic networks. However, according to Annex I.P.B.3.1.2_a_IMat, the number of mobilities carried out remains low (5, of which 3 took place during the same period, at the same conference), an aspect that limits the diversity and actual scope of doctoral candidates' participation in such activities. During discussions with doctoral students and alumni, it was found that only one of those present and two of the graduates had participated in a mobility program. There are also other funding opportunities to cover expenses related to academic mobility: EU RIANA projects (for two weeks), Sfera projects, Erasmus, and the COST program.

- ✓ Aspects that constitute best practice examples: No
- ✓ Recommendations: Continuous informing of doctoral candidates regarding the existence and importance of academic mobilities.

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

- ✓ Presentation of the state of facts:

The Doctoral School within IOSUD-TUIASI (COD REG11, COD REG38, COD REG42) ensures equity in the doctoral path through individual study plans adapted to the research topic and each candidate's own learning pace, curricular flexibility (complementary courses, internships, applied activities), diversified teaching methodologies (case studies, projects, research-based learning, workshops), and special attention to the integration of doctoral candidates from disadvantaged groups or with special needs.

In 2023, the Talent Management Center (CMT-TUIASI) was established, with the mission of increasing the employability of doctoral candidates and postdoctoral researchers by developing transferable competencies relevant to industry and the public sector, through identifying needs and implementing tailored training services, addressed also to doctoral candidates arriving through mobility programs.
Within the Ingenium Alliance, webinars, Blended Intensive Programs, and summer/winter schools have been organized annually since 2022 for students from the 10 partner universities (details on the most recent winter school: https://ingenium-university.eu/event/science-factory-ai-impact-in-research-senior-winter-school-tuiasi/). Doctoral candidates have also been integrated into the teams of FDI projects coordinated by CSUD-CSD (FDI TechGo1 – 2022, TechGo2 – 2023, TechGo3 – 2024, and FDI-2025-F0069 "Insert-Ing" in 2025), as well as into the "DocTalent4EU credentials" project, aimed at the digital accreditation of transferable competencies of doctoral candidates and early-career researchers (ECR), in relation to the ESCO classification.

- ✓ Analysis of the state of facts:

Institutional mechanisms allow each doctoral candidate to develop their academic potential and pursue their doctoral path at their own pace, free of discrimination or barriers. Equity is reflected in the high level of satisfaction among doctoral candidates, equal access to research resources and infrastructure, the adaptation of teaching activities to individual competencies, and the involvement of doctoral candidates in projects aligned with their own interests. The opportunities provided are real, individualized, and integrated into the doctoral path, respecting the diversity of learning styles.

- ✓ Aspects that constitute best practice examples:

The establishment of the Talent Management Center, whose mission is to increase the employability of doctoral candidates and postdoctoral researchers by developing transferable competencies.

- ✓ Recommendations: No

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.

- ✓ Presentation of the state of facts:

The organizational component of doctoral programs ensures non-discriminatory access for doctoral candidates to educational resources and support services appropriate to the field. They benefit from research infrastructure (laboratories, equipment, analysis software), a library and international scientific databases, digital learning platforms, as well as academic and professional counseling, mentoring by the doctoral supervisor, and administrative and IT support. For doctoral students with special educational requirements/disabilities, IOSUD-TUIASI and the Doctoral School ensure physical accessibility measures and reasonable adaptations of the teaching and assessment process, in accordance with internal regulations and national legislation, guaranteeing equal opportunities and educational inclusion.

- ✓ Analysis of the state of facts

The analysis of resource organization highlights their adequacy to the specific requirements of doctoral studies in the IMat field, through the advanced infrastructure secured for research activity. Access to the infrastructure is provided to all doctoral students. During the visit, an access lift for people with disabilities was installed at the main entrance of the Faculty of Materials Science and Engineering.

- ✓ Aspects that constitute best practice examples: No
- ✓ Recommendations: No

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.

- ✓ Presentation of the state of facts:

Learning outcomes are formulated in a clear, coherent manner and in line with the graduate's training profile. They are integrated into the course descriptions and structured in relation to the professional and transversal competences that doctoral students must acquire at the end of their educational path. For each subject in the curriculum, the learning outcomes are expressed in the syllabi in clear and coherent, student-centered terms, explicitly describing what the student is able to know, understand and apply after completing the teaching-learning activities. These outcomes are formulated in accordance with European standards for quality assurance in higher education and are correlated with the qualification level established in the National Qualifications Framework and the European Qualifications Framework. In this way, doctoral students understand the formative expectations, which contributes to increasing the transparency and predictability of the educational process.

- ✓ Analysis of the state of facts:

Learning outcomes are adequately described in the curriculum and subject files, broken down into knowledge, skills, responsibility and autonomy. Training programs and syllabi are established together with employers of DSUD alumni.

- ✓ Aspects that constitute best practice examples: No
- ✓ Recommendations: No

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.

- ✓ Presentation of the state of facts:

The verification of learning outcomes in TUIASI doctoral programs is carried out through ongoing evaluations and a final assessment. Ongoing evaluations include examinations in the disciplines of the advanced university studies program, the defense of the PPUA completion research report (https://doctorat.tuiasi.ro/wp-content/uploads/2025/07/SIM.pdf), the defense of scientific research reports, and the evaluation of activity by the doctoral supervisor and the guidance committee, with the methods being correlated with the learning outcomes set out in the course syllabi and the individual research plan. The final assessment consists of the public defense of the doctoral thesis, which certifies an original scientific contribution and the level of competence corresponding to the qualification of Doctor Engineer. The procedures are regulated by the Doctoral School regulation and institutional methodologies (Code PO. CSUD.01, Code PO. CSUD.17).
Within the Talent Management Center, the 3MT (Three-Minute Thesis) competition was organized, based on the model developed by the University of Queensland (Australia), with 14 doctoral candidates participating, testing their capacity for synthesis, eloquence, and fluent communication in English.

- ✓ Analysis of the state of facts:

The analysis of the evaluation system highlights the progressive and integrated nature of the verification of learning outcomes, from ongoing formative assessments to the final summative evaluation.

- ✓ Aspects that constitute best practice examples: No
- ✓ Recommendations: No

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.

✓ Presentation of the state of facts:

The organization of admission to doctoral studies falls under the responsibility of IOSUD-TUIASI, in accordance with the Regulation on the Organization of Doctoral University Studies and the methodology developed by the CCPD, endorsed by the CSD and approved by the CSUD, which establish the enrollment conditions, committees, selection criteria, vacant positions, topics, and bibliography. Research topics are proposed by the doctoral supervisor and approved by the CSD, while the funding form for each position is approved by the CSUD, depending on the proposed topic and the institutional strategy for funding priority fields.

Eligibility to apply is granted to graduates holding a master's degree (or equivalent), with a total of at least 300 cumulative transferable credits across the bachelor's and master's cycles. The methodology is published on TUIASI's website, ensuring transparency and equal access to information. Budgeted places (allocated by the Ministry of Education) and fee-paying places (approved by the Senate) are distributed among CCPDs by the Board of Administration, upon the CSUD's proposal, proportionally to the number of doctoral supervisors affiliated with each field; the dynamics of occupied places for the IMat field during 2021-2025 are presented in Annex I.P.B.7.1.1_IMat.

Admission involves the evaluation of the candidate's file, an interview assessing preparation, research aptitude, and the proposed topic, as well as a language proficiency examination in an internationally used language. Committees are appointed by institutional decision, results are publicly communicated in compliance with data protection regulations, and the procedure includes appeal-resolution mechanisms, guaranteeing a fair and competitive selection process.

✓ Analysis of the state of facts:

The analysis of the admission process highlights the consistent application of established procedures and the correlation between the number of places and the available supervision capacity and research infrastructure. The admission places are distributed by PhD domains.

✓ Aspects that constitute best practice examples: No

✓ Recommendations: No

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.

✓ Presentation of the state of facts:

The admission process for doctoral university studies complies with the principles of equity, transparency, and equal opportunity, being regulated by the institutional methodology and applicable national legislation. The selection criteria, public and clearly formulated, are applied uniformly to all candidates, without any form of discrimination on grounds of gender, ethnicity, religion, disability, or socio-economic status, and the methodology provides for transparent evaluation mechanisms, as well as mechanisms for resolving potential appeals, intended to guarantee the objectivity of the selection.

For candidates belonging to vulnerable groups or with special educational requirements/disabilities, the institution has implemented dedicated support measures, including reasonable adaptation of admission tests, accessibility of facilities, and the provision of information in digital format, as well as a number of

places reserved within IOSUD-TUIASI for candidates in situations of social and educational risk. These measures reflect, at the level of the organizational component, an inclusive and equitable admission process, aligned with the quality principles promoted by both ARACIS and IOSUD-TUIASI.

- ✓ Analysis of the state of facts:

The selection of candidates is carried out exclusively based on academic merit and research potential, without the application of any discriminatory criteria.

- ✓ Aspects that constitute best practice examples: No
- ✓ Recommendations: No

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.

- ✓ Presentation of the state of facts:

The professional activity of doctoral candidates in the IMat field is carried out in accordance with the Doctoral School Regulation and institutional methodology, with the academic path structured around the training program based on advanced university studies and the individual scientific research program. Doctoral candidates' activity is monitored through annual progress reports, the evaluation of results by the doctoral supervisor and the guidance committee, as well as through the analysis of scientific output (articles, conference participation, patents, contributions to research projects). Situations regarding interruption, withdrawal, extension of studies, mobilities, or changes of doctoral supervisor or of the thesis/research report title are regulated through approved institutional procedures, applied based on a request and a corresponding administrative decision. The doctoral path concludes with the public defense of the thesis; the composition of the defense committees during 2021-2025 is presented in Annex I.P.B.7.2.1_b_IMat, and during this period 23 doctoral degrees were awarded in the IMat field (Annex I.P.B.7.2.1_a_IMat).

- ✓ Analysis of the state of facts:

It is found that, within the IMat doctoral field, academic records are maintained for each doctoral candidate, deadlines are monitored, and the administrative support necessary for carrying out research activities is provided, thereby ensuring the coherence and predictability of the doctoral path. The 23 doctoral degrees awarded during 2021-2025 reflect the functionality of the monitoring and completion mechanisms, as well as the field's capacity to support doctoral candidates through to the successful completion of their doctoral thesis.

- ✓ Aspects that constitute best practice examples: No
- ✓ Recommendations: No

The indicator is: fulfilled.

Criterion B.8. Internationalisation process

Standard S.B.8.1. Internationalisation 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.

- ✓ Presentation of the state of facts:

TUIASI has agreements for years with international universities and research centers in the Europe (https://doctorat.tuiasi.ro/wp-content/uploads/2022/10/Acorduri-Erasmus-TUIASI-pentru-site-PRI_romana.pdf) and other countries (https://doctorat.tuiasi.ro/wp-content/uploads/2022/10/Book1-1.pdf). These agreements include the mobility of doctoral students and faculties, the exchange of best

practices, as well as the development of joint research projects. Mobilities have been supported via institution resources and other fundings such as Erasmus+KA131, COST, Widera.
Since 2023, TUIASI is part of the "INGENIUM" Alliance as a coordinator. Via international collaborations the domain has had numerous outputs such as publications, (Annex I.P.B.3.1.2._A_Imat), research projects (Annex I.P.A._3.1.2._c_ IMat) and conferences (eg. Doctoral school Conference, International Conference on Innovative Research, National Casting Conference and the International Exhibition and Workshop_ROSSM – Occupational Safety and Health / Safe and Healthy Work in the Digital Age).

- ✓ Analysis of the state of facts:

As an output of the internalizations, many papers have seen to be published along with many joint conferences and events. TUIASI being member of INGENIUM Alliance, have accomplished three joint PhD programs (Sustainable Development ecosystem and the Artificial Intelligence ecosystem).

- ✓ Aspects that constitute best practice examples: No
- ✓ Recommendations: No

The indicator is: fulfilled.

Criterion B.9. Scientific research results

Standard S.B.9.1 Scientific research in the education 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.

- ✓ Presentation of the state of facts:

The Materials Engineering doctoral program systematically integrates learning based on scientific investigation, offering students the opportunity to develop their analytical and research skills by applying scientific methods in the educational process. The results of the research carried out within the program are used both in teaching activities and in professional development projects, thus ensuring that the targeted learning outcomes are achieved.
Scientific research is conducted through research centers where doctoral supervisors in the field of materials engineering work: CECIM and IMM, both well equipped. The doctoral program includes teaching and research activities carried out in TUIASI laboratories. As part of these activities, doctoral students are involved in analyzing specialized literature, as well as in collecting and interpreting data, and writing papers based on applied research. Doctoral students are encouraged to actively participate in research projects, either individually or in teams, under the guidance of teaching staff.
Annually Faculty of Materials Science and Engineering organizes ICIR Euroinvent conference, where teachers and doctoral students in the field present their achievements. Annually, Doctoral School organizes International Conference of the Doctoral School dedicated to doctoral students.

- ✓ Analysis of the state of facts:

Doctoral students in the field of Materials Engineering are involved in extensive scientific research, which is a prerequisite for students to achieve learning outcomes. Access to research infrastructure and modern scientific resources allows research to be carried out at a level that meets national and international standards and contributes to the development of specific EQF 8 skills. Companies are not involved in organizing the International Conference of the Doctoral School.

- ✓ Aspects that constitute best practice examples: No
- ✓ Recommendations: No

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.

- ✓ Presentation of the state of facts:

There are currently 15 doctoral supervisors working in the field of Materials Engineering at TUIASI. Of these, 12 are tenured, 3 are associated, and 12 have active doctoral students, with only one supervisor having more than 8 doctoral students in training. Of the doctoral supervisors, **14 meet the CNATDCU criteria**.
The publications of the doctoral supervisors together with doctoral students in the field of Materials Engineering are presented in Annex I.P.A.3.1.2_a_IMat. Presentations at international events by doctoral students are presented in Annex I.P.B.9.1.1._a_IMat. IOSUD – TUIASI actively supports the dissemination, international visibility and valorization of scientific research carried out by doctoral supervisors and doctoral students through a coherent institutional funding policy and dedicated research support mechanisms.

- ✓ Analysis of the state of facts:

The field of Materials Engineering is notable for its scientific research activity, which has a significant impact on national and international level. The results of the research are disseminated through scientific publications in high-ranking journals, participation in relevant conferences, involvement in research projects, and institutional collaborations.

- ✓ Aspects that constitute best practice examples: The existence of large number of scientific publications and contracts.
- ✓ Recommendations: No

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

- ✓ Presentation of the state of facts:

TUIASI has a quality assurance system, and the doctoral school is also in the system. The university senate is composed of elected representatives of faculty and students and is the highest authority in the quality assurance system. In the system, activities are being managed by committees. The members of the Quality Assessment and Assurance Committee has been structured and (https://www.tuiasi.ro/comisia-pentru-evaluarea-si-asigurarea-calitatii-ceac/) placed in the organizational chart (https://www.tuiasi.ro/wp-content/uploads/2026/01/Organigrama1-1.pdf) The quality policy (https://www.tuiasi.ro/wp-content/uploads/2024/03/2024-03-11-Declaratie-Rector-privind-calit-fara-semnaturi.pdf) is declared by the rector, strategic plan https://www.tuiasi.ro/wp-content/uploads/2025/11/Plan-strategic-2024-2029.pdf) and it has objectives and related actions needed are available.

- ✓ Analysis of the state of facts:

The foundation of the quality culture is established by the solid declaration of the university management as well as the documentation. The sustainability of the quality is secured by the practices. With the strategic plan included in the system, actions taken to provide and improve quality education are being monitored.

- ✓ Aspects that constitute best practice examples: No
- ✓ Recommendations: No

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.

✓ Presentation of the state of facts:

Quality assurance procedures are applied in all TUIASI structures, with responsibility lying with those in charge of the process, namely the evaluation and quality assurance committees. The records obtained as a result of the application of the procedures provide relevant information on the involvement of members of the academic community and other stakeholders (teaching staff, auxiliary and non-teaching staff, students, graduates and representatives of the business community) in the conduct of the teaching process, research activities and support processes.

The methodology and responsibilities regarding the development of system procedures, operational procedures, regulations, codes, and work instructions in TUIASI are governed by Procedure for Developing Work Procedures and Instructions, Cod PS.01.

✓ Analysis of the state of facts:

TUIASI applies institutional quality assurance procedures that include the systematic collection of feedback from students, teaching staff, graduates and external partners through evaluations of teaching, research and support services. The results of these evaluations are analyzed and are used to formulate and implement measures to improve study programs and services.

✓ Aspects that constitute best practice examples: No

✓ Recommendations: No

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.

✓ Presentation of the state of facts:

TUIASI has an Ethics and Professional Deontology Commission which carries out its activity autonomously considering the Code of University Ethics and Deontology. Academic freedom, competence and professionalism, honesty, integrity, responsibility and collegiality are the main specific measures. For all doctoral students "The ethics course" is mandatory in the first-year and there are guides and procedures developed by CSUD. Added to this, during their research all doctoral supervisors are passing their knowledge in ethics and deontology in the research activities.

Furthermore, the Department of Academic Ethics and Integrity has been established by Senate on October 22, 2021. There is software to check all doctoral dissertations for anti-plagiarism and verification.

✓ Analysis of the state of facts:

Code of Academic Ethics and Professional Conduct document is available online (https://www.tuiasi.ro/wp-content/uploads/2025/12/COD.01-E4R1.pdf). The regulations to govern the Organization and Operation of the Committee on Academic Ethics and Professional Conduct (https://www.tuiasi.ro/wp-content/uploads/2024/12/REG.17_E4R0-fs.pdf as well as methodology of selection the members of the Committee on Academic Ethics and Professional Conduct (https://www.tuiasi.ro/wp-content/uploads/2025/09/Metodologie-selectie-CEDU_2025-1.pdf) have been prepared and

disseminated. The related course is "Etica şi integritatea academică" is in the curriculum for the doctoral students to take in the first semester. The reports are also prepared by Academic Ethics and Integrity Office on yearly basis (https://doctorat.tuiasi.ro/wp-content/uploads/2026/03/Chestionar-satisfac%C8%9Bie-studen%C8%9Bi-doctoranzi-2026.pdf).

- ✓ Aspects that constitute best practice examples: No
- ✓ Recommendations: No

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.

- ✓ Presentation of the state of facts:

In order to prepare the documentation in TUIASI in certain standard, an instruction is deployed (https://www.tuiasi.ro/wp-content/uploads/calitate_old/PO.POM.02%20Instructiuni%20elaborare%20unitara%20ROF-uri.pdf) in the quality management system. Added to this, there are 17 procedures for the initiation, approval, monitoring, and periodic evaluation of doctoral programs (https://doctorat.tuiasi.ro/wp-content/uploads/2024/03/13-1.pdf).

Each year a Quality Report has been prepared to show the information on doctoral programs; doctoral thesis topics; publication of scholarly articles; research projects; admission of students to doctoral studies; etc. On the materials domain under the Faculty of Materials Science and Engineering, the Quality Assurance and Evaluation Subcommittee is established, and specific objectives are set for Materials Engineering. IOSUD-TUIASI, the implementation of the Procedure PO.CSUD.12 for the evaluation of doctoral supervisors by management.

- ✓ Analysis of the state of facts:

TUIASI has been evaluated by other institutions and gathered respectful results in these evaluations and among the top five research universities in the country which is proof as another valuable outcome of the quality system in education. Especially, the evaluation of UEFISCDI 3 fields in had first place, 5 fields had the second place, and 6 fields had fourth place.

The doctoral supervisors completed the evaluation form Annex I.P.C. 3.1.2._a_IMat. In addition to this, the doctoral students and employers make their evaluations (https://doctorat.tuiasi.ro/descopera/transparenta/). All the results are inserted in the quality reports.

- ✓ Aspects that constitute best practice examples: No
- ✓ Recommendations: No

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.

- ✓ Presentation of the state of facts:

TUIASI applies a quality assurance policy and has created an institutional framework that allows for the systematic implementation of internal quality assurance activities, involving management structures at all levels, quality assessment and assurance structures, teaching staff, students and other categories of staff. At the Doctoral School level, there is a quality management system based on a set of specific procedures and instructions. The Quality Assurance and Evaluation Committee at TUIASI level has been established according to Senate Decision no. 359/28.11.2025.

The stakeholders contribute to the adoption and review of methodologies, regulations, implementation procedures and curricula.
The evaluation of the doctoral supervisors is done according to procedure PO.CSUD.1. The evaluation forms for doctoral supervisors completed by management are presented in Annex I.P.C. 3.1.2._a_IMat. The evaluation forms for doctoral students completed by their advisors are presented in Annex I.P.C. 3.1.2._b_IMat.

- ✓ Analysis of the state of facts:

The implementation of procedures at the TUIASI level is achieved through the coordinated involvement of all relevant actors, ensuring the transparency and efficiency of academic and administrative processes. The participation of doctoral students and teaching staff in decision-making structures contributes to the continuous improvement of the quality of doctoral programs.

- ✓ Aspects that constitute best practice examples: No
- ✓ Recommendations: No

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.

- ✓ Presentation of the state of facts:

TUIASI has methodologies and procedures to ensure and improve the quality of staff activities through regulations, procedures, and instructions. Especially, the procedures for the evaluation of doctoral advisors by management bodies – PO.CSUD.12; Procedure for the Evaluation of Doctoral Students by the Doctoral Advisor – PO.CSUD.17; Procedure for the Prevention and Enforcement of Standards of Academic Ethics and Integrity in Doctoral and Postdoctoral Studies at IOSUD-TUIASI – PO.CSUD.11; Procedure for the initiation, approval, monitoring, and periodic evaluation of doctoral programs – PO.CSUD.13; Procedure for the enrollment and termination of enrollment of supervisors in SD-IOSUD – PO.CSUD.06 are helping to manage these activities.
Feedbacks of the doctoral students via survey have been gathered (https://doctorat.tuiasi.ro/wp-content/uploads/2026/03/Chestionar-satisfac%C8%9Bie-studen%C8%9Bi-doctoranzi-2026.pdf).

- ✓ Analysis of the state of facts:

Between 2021 and 2025 feedback from doctoral students was collected through satisfaction surveys and results are analyzed and publicly available along with the report (https://doctorat.tuiasi.ro/descopera/transparenta/).

- ✓ Aspects that constitute best practice examples: No
- ✓ Recommendations: No

The indicator is: 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.

- ✓ Presentation of the state of facts:

TUIASI has a survey that questions administrative services; training program based on advanced university studies; evaluation and grading; communication with the doctoral supervisor; research infrastructure; other criteria (at the choice of the doctoral student). Each year, based on collected and analyzed data, was

developed an action plan that included: (i) intensifying institutional support for doctoral students, particularly regarding legislative changes; (ii) improving career guidance for doctoral students through the establishment of the Talent Management Center (CMT-TUIASI); (iii) increasing the number of online training sessions offering tips and recommendations for writing doctoral theses, scientific papers, etc.; (iv) streamlining the document workflow with the administrative department; (v) improving research infrastructure by seeking external funding (national and international project proposals); (vi) creating an educational platform with sections dedicated to doctoral studies; (vii) facilitating conditions for interdisciplinary collaboration; (viii) identifying funding sources for postdoctoral research programs.

✓ Analysis of the state of facts:

TUIASI has a comprehensive quality management system that includes the data needed for analysis. As far as doctoral domain is concerned, they a transparent page showing the analysis results of the survey made (https://doctorat.tuiasi.ro/descopera/transparenta/). Any improvement action taken and the results of the actions are implemented in regulations if necessary (https://doctorat.tuiasi.ro/studii-de-doctorat/legislatie/) and report all activities in the annual quality reports.

✓ Aspects that constitute best practice examples: No

✓ Recommendations: No

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.

✓ Presentation of the state of facts:

In both the university and SD-TUIASI web sites, the organizational structure, regulations, procedures as well as the information on the supervisors and doctoral students and the dissertation topic and progress of the studies are being announced.

✓ Analysis of the state of facts:

In the SD-TUIASI web site (https://doctorat.tuiasi.ro/) up to date comprehensive data and information have been announced to public access. This data and information include the organization, regulations, procedures, and the doctoral studies conducted. The announcement of any changes made and management of the doctoral dissertations from admission to defenses are also shared on the website.

✓ Aspects that constitute best practice examples: No

✓ Recommendations: No

The indicator is: fulfilled.

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

✓ Presentation of the state of facts:

SD-TUIASI web site has all the information (https://doctorat.tuiasi.ro/) the students, faculty and public needed. For some information confidentiality and data protection are taken into consideration. They are following some indicators to ensure transparency is monitored. These are communication deadlines, response times, and periodic feedback from doctoral students. The information on the status of doctoral students their committee member, the resume of the doctoral student and committee members and their progress report are also being monitored transparently.

✓ Analysis of the state of facts:

The decision made for the quality of educations are being transparently announced in the university doctoral school web page (https://doctorat.tuiasi.ro/). The examples of some decisions are given (https://doctorat.tuiasi.ro/conducatori-de-doctorat/ and https://doctorat.tuiasi.ro/sustineri-publice/teze-de-doctorat/). The progress reports and resumes of the doctoral students and their supervisors and committee members are shared publicly (https://www.tuiasi.ro/doctorat/sustinere-teze-doctorat/). Students do not know their representatives on the CSUD and SD councils; consequently, they do not communicate with them.

- ✓ Aspects that constitute best practice examples: No
- ✓ Recommendations: Improving communication of students with their representatives in CSUD and SD councils.

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.

- ✓ Presentation of the state of facts:

The quality system of TUIASI describes the internal and external evaluation process (https://doctorat.tuiasi.ro/wp-content/uploads/2024/03/13-1.pdf). To maintain the quality in universities education and research, internal evaluation is being made and based on the Self-Evaluation Report.
The university Doctoral School (13 doctoral fields) has been evaluated every five years to maintain accreditation by the Romanian Agency for Quality Assurance in Higher Education (ARACIS). The last evaluation was done in 2021. The 2021 ARACIS evaluation resulted in two partially fulfilled indicators (A.1.3.3 and C.3.1.1).

- ✓ Analysis of the state of facts:

Following the last ARACIS visit improvement actions are implemented. The performance indicator A1.3.3., was fulfilled, more than 20% of the funding from doctoral grants to research activities carried out by doctoral students, including their national and international mobility and other professional training activities for doctoral students (Annex I.P.B.3.1.2_b_IMat). For the indicator C. 3.1.1, there have been attempts to make collaboration with international universities for joint doctoral projects. INGENIUM alliance of the university also sets motivation as well as the medium to have the opportunity to make joint research.

- ✓ Aspects that constitute best practice examples: No
- ✓ Recommendations: No

The indicator is: fulfilled.

IV. SWOT Analysis

Strengths:		Weaknesses:
✓ PhD supervisors with strong pedagogical and research qualities. ✓ Visibility of research results through articles published in ISI Web of Science–indexed journals and volumes. ✓ Cooperation with EU universities through European and non-European projects. ✓ Well-equipped research laboratories serving the field	INTERNAL FACTORS	✓ Low number of applicants for doctoral studies from other universities in Romania and abroad. ✓ No PhD theses are completed under international co-supervision. ✓ Low number of EU projects and international grants. ✓ Low number of research scholarships resulting from public-private partnerships. ✓ Low number of students are involved in

✓ Use of modern teaching methods (IT and multimedia equipment) and well-equipped computer rooms and laboratories. ✓ Access to prestigious international databases through the ANELIS Plus program (Web of Knowledge, Scopus, ScienceDirect, SpringerLink, IEEE Xplore, and others). ✓ Properly functioning management structures at TUIASI level (Senate, committees) as well as CSUD and SD. ✓ The establishment of the Talent Management Center, to increase the employability of doctoral candidates and postdoctoral researchers by developing transferable competencies.		academic mobilities. ✓ Low number of students participated in international conferences abroad Romania. ✓ Students don't know their representatives in CSUD and SD councils. ✓ Companies are not involved in organizing the International Conference of the Doctoral School.
SWOT analysis		
Opportunities: ✓ Growth in the number of young doctoral supervisors. ✓ Increased involvement of the university in supporting doctoral schools. ✓ European projects serving as a valuable substitute for the irregular pace of Romanian funding. ✓ Capitalizing on the university's comprehensive structure and interdisciplinarity as a distinctive element in doctoral studies. ✓ Attracting doctoral students from abroad through the university's collaboration agreements. ✓ Collaboration with the socio-economic environment and development of a system calibrating doctoral research topics to companies' development needs.	**EXTERNAL FACTORS**	**Threats:** ✓ National and international competition in doctoral studies to attract doctoral students and financial resources. ✓ Migration of Romanian graduates to institutions abroad or to foreign labor markets. ✓ Declining willingness among companies to invest in training highly qualified specialists and in doctoral research. ✓ The decline in interest among young people in technical fields, in favor of other branches with more attractive short-term incomes. ✓ The continuous decrease in the number of high school graduates, migration and the reduction in the level of training in basic subjects in high school will generate a decrease in the number of master's graduates with the potential to become doctoral students in the future. ✓ Insufficient funding of scientific research at the national level, which limits the opportunities for developing a career in the field. ✓ Doctoral studies seem to be too difficult for doctoral students employed outside the university. This could result in a decrease in interest in doctoral studies and an increase in the dropout rate. ✓ The lack of attractiveness of the teaching career for young doctoral graduates.

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

No.	Performance Indicator	Extent to which it was fulfilled (F/PF/UF)	Recommendations
	DOMAIN A. Institutional capacity		
1.	I.P.A.1.1.1 For delivering the study programme/domain, the HEI has adequate organisational components and an adequate management system, which operate based on methodologies, regulations and procedures that are periodically reviewed as required by law.	F	
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.	F	
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.	F	
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.	F	
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.	F	
6.	I.P.A.3.1.2 The HEI ensures professional and personal development for its staff.	F	
7.	I.P.A.3.2.1 Recruitment procedures comply with the provisions of the law, and are established and carried out transparently.	F	
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.	F	
	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	F	

No.	Performance Indicator	Extent to which it was fulfilled (F/PF/UF)	Recommendations
	learning, teaching, practical training, research and evaluation experiences, which, together, lead to a higher education qualification.		
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).	F	
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.	F	
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.	F	Continuous informing of doctoral candidates regarding the existence and importance of academic mobilities.
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.	F	
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 the individual learning needs, the study domain, the study cycle, and the form of organisation of the study programme.	F	
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.	F	
16.	**I.P.B.5.1.2** Achievement of the learning outcomes is checked in ongoing examinations and study completion exams.	F	
17.	**I.P.B.7.1.1** The organisational component applies the admission procedures.	F	
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.	F	
19.	**I.P.B.7.2.1** The organisational component applies the regulations concerning the students' professional activity.	F	
20.	**I.P.B.8.1.1** The organisational component carries out international cooperation actions supporting mobility of the members	F	

No.	Performance Indicator	Extent to which it was fulfilled (F/PF/UF)	Recommendations
	of its own community and collaboration in academic and research activities.		
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.	F	
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.	F	
	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.	F	
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.	F	
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.	F	
26.	**I.P.C.3.1.1** The organisational component consistently applies the procedures, and proves their impact on quality assurance.	F	
27.	**I.P.C.3.1.2** Members of its own community and other stakeholders are involved in the procedure implementation process.	F	
28.	**I.P.C.4.1.1** The organisational component analyses the results of the students' biannual evaluation of teachers.	F	
29.	**I.P.C.5.1.1** The organisational component systematically collects and analyses data required for the internal quality assurance process.	F	
30.	**I.P.C.6.1.1** The organisational component ensures publication and access to information of public interest regarding the evaluated study programme.	F	
31.	**I.P.C.6.1.2** The organisational component ensures transparent decision-making processes.	F	Improving communication of students with their representatives in CSUD and SD councils
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.	F	

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	10	0	0
Total	32	0	0

VI. Conclusions

The main conclusions from the periodic evaluation visit of the Materials Engineering doctoral program, SD-TUIASI doctoral school from "Gheorghe Asachi" Technical University of Iaşi:

- ✓ *ARACIS Council Decision No. 123 of December 16, 2021, maintains the accreditation for IOSUD TUIASI and for the Materials Engineering doctoral field.*
- ✓ *At the time of the site visit, there were 15 doctoral supervisors in the field of "Materials Engineering" at TUIASI; 14 of them fully met the CNATDCU criteria and demonstrated extensive publication activity in high-ranking journals.*
- ✓ *At the time of the site visit, 64 doctoral students were enrolled in the "Materials Engineering" doctoral field at TUIASI (58 in the standard 4-year program and 6 in the extension/grace period).*
- ✓ *The doctoral program in Materials Engineering is designed based on intended learning outcomes; it is organized according to the ECTS system and includes learning, research, and assessment activities leading to an EQF Level 8 qualification.*
- ✓ *Doctoral research in the field of Materials Engineering is conducted in nine well-equipped research laboratories.*
- ✓ *The principles of quality management are fulfilled at TUIASI.*

Following the completion of the maintaining accreditation procedure, the decision of the evaluation panel is the following:

Maintaining accreditation (MAC)

VII. Annexes

The Internal Evaluation Report and the 24 annexes submitted by TUIASI to ARACIS were supplemented with the following annexes:

1. *Visit schedule*
2. *Clarifications requested from TUIASI by the evaluation team (01_Clarifications requested from TU Iasi.pdf);*
3. *The responses received from TUIASI (Clarifications_E_Mat_ENG.pdf);*
4. *Minutes of the meetings held during the evaluation visit (02_Minutes_ME_TUIASI_2026.pdf)*

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

Instituția de învățământ superior/Organizația furnizoare de educație/ Higher Education Institution / Education Provider Organization**:**
Universitatea Tehnică "Gheorghe Asachi" din Iaşi.....
Şcoala doctorală/ Doctoral School**: SD-TUIASI**.....
Domeniul de doctorat/ Doctoral Domain**: Ingineria Materialelor** .....
Obiectivul evaluării externe/ The objective of the external evaluation**:** *(autorizare de funcționare provizorie/acreditare/menținerea acreditării domeniului de doctorat)* **Menţinerea acreditării domeniului de doctorat**
Perioada vizitei de evaluare/ The evaluation period: **07-08.09.2026**

Comisia de experţi evaluatori ai ARACIS/Evaluation panel:

Nr./No.	III.1 Numele şi prenumele/ Last Name and First Name	Calitatea/Team role
2.	*ŢIEREAN Mircea Horia*	*Membru - Cadru didactic RNE*
3.	*KELEŞ Özgül*	*Membru - Evaluator internațional RNE-I*
4.	*NICA Ionuț-Cosmin*	*Membru - Student doctorand RNE-S*

Reprezentantul IÎS/OFE:

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

Intervalul orar/ *Hour*	Activităţi de evaluare/ *Evaluation activities*	Participanţi/ *Participants*	Locaţie/*Location* /Listă participanţi/*List of Participants*
Luni/ *Monday*, 07.09.2026			
09:00-09:30	Discuții tehnice în cadrul comisiei de experți în evaluarea externă a calității/ *Technical*	- Comisia de experți evaluatori ai ARACIS/ *Panel members*	Sala/Room SM09/Cladirea Decanat SIM

Intervalul orar/ *Hour*	Activităţi de evaluare/ *Evaluation activities*	Participanţi/ *Participants*	Locaţie/*Location* /Listă participanţi/*List of Participants*
	discussions within the expert committee for external quality evaluation		
09:30-10:20	Întâlnirea comisiei de experţi în evaluarea externă a calităţii cu **reprezentanţii conducerii componentei organizatorice/** *Meeting of the external quality evaluation experts' panel with the representatives of the management of the organisational component*	- Comisia de experţi evaluatori ai ARACIS/ *Panel members* - Reprezentanţi ai conducerii componentei organizatorice aferente domeniului de studii de doctorat evaluat/ *Representatives of the management of the organisational component* - Persoana de contact/ *Contact person*	Sala/Room SM09/Cladirea Decanat SIM Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**: - Prof. univ. dr. Ing.– Director al Consiliului pentru Studii Universitare de Doctorat – CSUD - Prof.univ.dr.ing. Director Școală Doctorală - Prof. univ. dr. Ing. - Prorectoratul Relația cu Studenții - Prof.univ.dr.ing.– membru consiliu Școală Doctorală - Prof. univ. dr.– director CCPD - Prof. univ. dr.– membru in consiliu CCPD SIM - Prof. univ. dr. ing.– membru in consiliu CCPD SIM - Prof. univ. dr. — membru in consiliu CCPD SIM - Persoana de contact/ *Contact person*
10:20-11:10	Întâlnirea comisiei de experţi evaluatori în evaluarea externă a calităţii 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 experţi evaluatori ai ARACIS/ *Panel members* - Echipa care a realizat REI/ *Team that has drafted the IER*	Sala/Room SM09/Cladirea Decanat SIM Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**: - Prof. univ. dr.– coordonator - Prof. univ. dr.– membru - Drd.– membru
11:10-12:00	Întâlnirea comisiei de experţi în evaluarea externă a calităţii cu **personalul didactic**	- Comisia de experţi evaluatori ai ARACIS/ *Panel members*	Sala/Room SM09/Cladirea Decanat SIM

Intervalul orar/ *Hour*	Activităţi de evaluare/ *Evaluation activities*	Participanţi/ *Participants*	Locaţie/*Location* /Listă participanţi/*List of Participants*
	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*	- Cadre didactice conducători de doctorat/ *Teaching staff who are PhD supervisors*	Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**: - Prof. univ. dr.– director CCPD - Prof. univ. dr.– membru comisia de admitere - Prof. univ. dr. – membru CCPD - Prof. univ. dr. – membru CCPD - Prof. univ. dr. – membru CCPD - Prof. Univ. Dr. Ing. membru CCPD
12:00-13:00	Pauză de prânz/ *Lunch*		
13:00-15:00	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*	Departament SM: 13:00-14:00 Departament IPM: 14:00-14:30 Departament IMSI: 14:30-15:00
15:00-16:00	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*	Sala/Room SM09/Cladirea Decanat SIM Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**: - Prof. Univ. Dr.– director CECIM - Prof. univ. dr. coordonator laboratorului de Materiale Inteligente - Prof. univ. Dr – coordonatoarea Laboratorului de Analiză termică şi nanofluide (ATNANO) - Prof. univ. dr.– coordonator laborator ESIM
16:00-17:00	Întâlnirea comisiei de experți în evaluarea externă a calității cu **angajatori** ai absolvenților DSUD/ *Meeting of the external quality*	- Comisia de experți evaluatori ai ARACIS/ *Panel members* - Angajatori/ *Employers*	Sala/Room SM09/ Hall SIM/Building Decanat Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**:

Intervalul orar/ *Hour*	Activităţi de evaluare/ *Evaluation activities*	Participanţi/ *Participants*	Locaţie/*Location* /Listă participanţi/*List of Participants*
	evaluation experts' panel with employers[*] of the DSUD alumni		- dr. Ing. - Coordonator NDTgroup - BMT Aerospace - dr. Ing.– director RANCON SRL - dr. Ing.– coordonator echipa National Paints - ing., Coordonator echipa, Vitesco – Schaeffler. - ing., director AQUATERM SRL Botosani AQUATERM SRL Botosani
17:00-18:00	Întâlnirea comisiei de experţi în evaluarea externă a calităţii cu **absolvenţi**[†,‡] ai DSUD/ *Meeting of the external quality evaluation experts' panel with alumni§ of the DSUD*	- Comisia de experţi evaluatori ai ARACIS/ *Panel members* - Absolvenţi ai domeniului de studii evaluat/ *Graduates*	Hall SIM/Building Decanat Cladirea Decanat SIM Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**: - Absolvent – 2022 - Absolvent – 2024 - Absolvent – 2024 - Absolvent – 2019 - Absolvent – 2019 - Absolvent – 2024 - Absolvent – 2022 - Absolvent – 2023 - Absolvent – 2024
Marţi/ *Tuesday*, 08.09.2026			

[*] Avoid inviting employers who are also staff of the HEI or members of the Romanian Academy, as applicable.
[†] Se va evita invitarea absolvenţilor care sunt angajaţi ai IÎS sau ai OFE, după caz.
[‡] Nu este obligatorie în cazul autorizării domeniilor de studii universitare de doctorat

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

Intervalul orar/ *Hour*	Activităţi de evaluare/ *Evaluation activities*	Participanţi/ *Participants*	Locaţie/*Location* /Listă participanţi/*List of Participants*
8:50 - 9:20	**Întâlnirea tehnică** a comisiei de experți evaluatori (Activitate în colaborare pentru clarificarea aspectelor prezentate în REI)/ *Technical meeting of the expert evaluation panel (Collaborative activity for clarifying the aspects presented in the Internal Evaluation Report - IER)*	- Comisia de experți evaluatori ai ARACIS/ *Panel members*	Sala/Room SM09/Cladirea Decanat SIM
9:20 - 10:20	Întâlnirea comisiei de experți în evaluarea externă a calității cu **studenţi*** **doctoranzi** din cadrul DSUD/ *Meeting of the external quality evaluation experts' panel with doctoral students of the DSUD*	- Comisia de experți evaluatori ai ARACIS/ *Panel members* - Studenți doctoranzi/ *Doctoral students*	Sala/Room Hall SIM/Building Decanat SIM Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**: - Student doctorand an/ year IV - Student doctorand an/ year IV - Student doctorand an/ year II - Student doctorand an/year II - Student doctorand an/year III - Student doctorand an/year II - Student doctorand an/year II - Student doctorand an/year II - Student doctorand an/year III - Student doctorand an/year III - Student doctorand an/year III - Student doctorand an/year III - Student doctorand an/year I

* 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.

Intervalul orar/ *Hour*	Activităţi de evaluare/ *Evaluation activities*	Participanţi/ *Participants*	Locaţie/*Location* /Listă participanţi/*List of Participants*
			- Student doctorand an/year I - Student doctorand an/year I - Student doctorand an/year I - Student doctorand an/year I
10:20 - 11:10	Întâlnirea comisiei de experţi în evaluarea externă a calităţii cu **reprezentanţi ai conducerii componentei organizatorice/persoana de contact/reprezentanţi ai CEAC/reprezentanţi ai structurilor organizatorice în domeniul asigurării calităţii** * / *Meeting of the external quality evaluation experts' panel with representatives of the organisational component / contact person / representatives of the CEAC / representatives of quality assurance organisational structures*	- Comisia de experţi evaluatori ai ARACIS/ *Panel members* - Reprezentanţi ai conducerii / reprezentanţi ai CEAC / reprezentanţi ai structurilor organizatorice în domeniul asigurării calităţii/ *Representatives of the management / representatives of the CEAC / representatives of the quality assurance organisational structures* - Persoana de contact/ *Contact person*	Sala/Room B07/Rectorat Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**: - Prof. univ. dr.– Prorectoratul Asigurarea Calităţii şi Imagine Universitară - Prof. - Ec. - Secretary ing
11:10-11:20	Pauză/ *Break*		
11:20 - 12:20	Întâlnirea comisiei de experţi în evaluarea externă a calităţii cu reprezentanţi ai **structurilor organizatorice în domeniul asigurării calităţii**/ *Meeting of the external quality evaluation experts' panel with*	- Comisia de experţi evaluatori ai ARACIS/ *Panel members* - Reprezentanţi ai structurilor organizatorice în domeniul asigurării calităţii/ *Representatives of quality assurance organisational structures*	Sala/Room B07/Rectorat Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**: - Prof. - Lecturer dr. Ing - Lecturer dr. Ing.

* Clarificarea unor aspecte rezultate din activităţile şi discuţiile desfăşurate pe parcursul efectuării vizitei, dacă se impune

Intervalul orar/ *Hour*	Activităţi de evaluare/ *Evaluation activities*	Participanţi/ *Participants*	Locaţie/*Location* /Listă participanţi/*List of Participants*
	representatives of the quality assurance organisational structures		Persoana de contact/ ***Contact person***
12:20-13:20	Întâlnirea comisiei de experţi în evaluarea externă a calităţii cu membri ai **Comisiei de etică universitară/** *Meeting of the experts panel with members of the University Ethics Committee*	- Comisia de experţi evaluatori ai ARACIS/ *Panel members* - Membri ai Comisiei de etică universitară/ *Members of the University Ethics Committee*	Sala/Room SM09/Cladirea Decanat SIM Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**: - Prof. univ. dr.– membru comisie de etică pe Universitate - Conf. univ. dr.– membru comisie de etică pe Universitate
13:30-14:30	Pauză de prânz/ *Lunch*		
14:30 - 15:00	Întâlnire tehnică a comisiei de experţi evaluatori/ *Technical meeting of the expert evaluation panel*	- Comisia de experţi evaluatori ai ARACIS/ *Panel members*	Sala/Room SM09/Cladirea Decanat SIM
15:00-16:00	Întâlnirea membrilor comisiei de experţi evaluatori cu reprezentanţii conducerii IÎS sau a OFE, după caz şi ai conducerii componentei organizatorice pentru comunicarea concluziilor procesului de evaluare/ *Meeting of the members of the expert evaluators' panel with representatives of the management of the HEI or the EP, as applicable, and management of the organisational component, to communicate the conclusions of the evaluation process*	- Comisia de experţi evaluatori ai ARACIS/ *Panel members* - Reprezentanţi ai conducerii şi ai domeniului de studii evaluat/ *Representatives of the management* - Persoana de contact*/ Contact person*	Sala/Room SM09/Cladirea Decanat SIM Lista persoanelor care vor participa la întâlnire/ **List of participants attending the meeting**: - Prof. univ. dr. Ing.– Director al Consiliului pentru Studii Universitare de Doctorat – CSUD - Prof.univ.dr.ing. Director Şcoală Doctorală - Prof. univ. dr. Ing. - Prorectoratul Relaţia cu Studenţii - Prof.univ.dr.ing.– membru consiliu Şcoală Doctorală - Prof. univ. dr.– director CCPD - Prof. univ. dr. – membru in consiliu CCPD SIM

Intervalul orar/ *Hour*	Activităţi de evaluare/ *Evaluation activities*	Participanţi/ *Participants*	Locație/*Location* /Listă participanţi/*List of Participants*
			- Prof. univ. dr. ing.– membru in consiliu CCPD SIM - Prof. univ. dr. – membru in consiliu CCPD SIM - Persoana de contact/ *Contact person*
16:00-17:00	Finalizarea activităților de evaluare/ *Completion of evaluation activities*	- Comisia de experți evaluatori ai ARACIS/ *Panel members*	Sala/Room SM09/Cladirea Decanat SIM

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.