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# INSTITUTION ORGANIZING DOCTORAL STUDY PROGRAMS (IOSUD) INTERNAL EVALUATION REPORT



July 2021

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Nr. institution registration .....

No. ARACIS registration .....

## **INTERNAL EVALUATION REPORT**

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Stamp

*The data contained in this Report are complete, correct and in accordance with the principles of professional ethics*

## ABBREVIATIONS

ANS	National platform for collecting statistical data for higher education
ARACIS	Romanian Agency for Quality Assurance in Higher Education
ASE	Academy of Economic
BDI	International Databases
CEAC	Quality Assessment and Assurance Department
CC	Research centers
CCIEETI	Research Center in Electrical Engineering, Electronics and Information Technology
CCNANOMEC	Nanomaterials Research Center for Mechanical Microsystems
CCSASM	Research Center „Academic School of Materials Science
CCSCF	Center for Research and Studies in Accounting and Finance
CCSMM	Center for Research and Studies in Management and Marketing
CCVE	Electric Vehicle Research Center
CITST	IT Center for Science and Technology
CoEAC	Commission for Quality Assessment and Assurance
CNATDCU	National Council for the Attestation of University Degrees, Diplomas and Certificates
CSD	Doctoral School Council
CSUD	Council for Doctoral Studies
DCEM	Energy-Environment Research Department
ECTS	European Credits Transfer System
EQF	European Qualifications Framework
FIETI	Faculty of Electrical Engineering, Electronics and Information Technology
FIMM	Faculty of Materials Engineering and Mechanics
FSE	Faculty of Economics
FSU	Faculty of Humanities
ICECHIM	National Research and Development Institute for Chemistry and Petrochemistry
ICSTM	Multidisciplinary Scientific and Technological Research Institute
INCDMTM	National Research-Development Institute for Mechatronics and Measurement Technique
IOSUD	Institution Organizing Doctoral University Studies
ISI	International Statistical Institute
HG	Government decision
HSU	Senate decision
LEN	National education law no. 1/2011
LSUV	League of Students of the University of Valahia
MENCS	Ministry of National Education and Scientific Research
OM	Order of the Minister
POS DRU	Sectoral Operational Program Human Resources Development
POR	Regional Operational Program
POS CCE	Sectoral Operational Program Increasing Economic Competitiveness
RASU	University Status Report
ROF	Regulation of organization and functioning
ROI	Internal regulations
SDSEU	Doctoral School of Economics and Humanities
SDSI	Doctoral School of Engineering Sciences
SMC	Quality management system
UE	European Union
UEFISCDI	Executive Unit for Financing Higher Education, Research, Development and Innovation
UMF	The University of Medicine and Pharmacy
UMS	University Management System

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## 1. GENERAL INFORMATION

### 1.1 The institutional capacity of an IOSUD

“Valahia” University of Târgoviște (UVT) is accredited as an Organizing Institution for Doctoral University Studies (IOSUD) ([Annex 1](#)), a structure under the leadership of the Council for Doctoral University Studies (CSUD, [Annex 4.2](#)). Doctoral studies represent the third cycle of university studies and allow the acquisition of a level 8 of qualification from the European Qualifications Framework (EQF) and from the National Qualifications Framework.

IOSUD-UVT, is established by the Decision of the UVT Senate no. 105D of March 9, 2012 ([Annex 1](#)), being organized and functioning as a distinct structure within the UVT, without legal personality, based on the following normative acts:

- Law of national education no. 1/2011 with subsequent amendments and completions,
- Code of doctoral university studies, approved by GD 681/2011,
- UVT charter,
- UVT regulations and IOSUD's own regulations.

"Valahia" University of Târgoviște is the institution that legally represents IOSUD-UVT, its leader being the rector of the university. The organization and functioning of IOSUD-UVT is presented in the “*Regulation on the organization and functioning of IOSUD*” ([Annex 25](#)), available on the UVT website, approved by Senate decision no. 47D / 31 January 2019.

There are two doctoral schools within IOSUD, the structure not being modified compared to the moment of IOSUD foundation:

- *Doctoral School of Economics and Humanities* (hereinafter referred to as SDSEU), with the fields: *History, Accounting and Management*.
- *Doctoral School of Engineering Sciences* (hereinafter referred to as SDSI), with the fields: *Materials Engineering, Electrical Engineering and Mechanical Engineering*.

SDSEU operates in the academic year 2020-2021: 11 scientific supervisors in the field of *History*, 5 doctoral supervisors in the field of *Accounting* and 7 scientific supervisors in the field of *Management*. Within SDSI, there are 5 PhD supervisors in the field of *Materials Engineering*, 4 PhD supervisors in the field of *Electrical Engineering* and 3 PhD supervisors in the field of *Mechanical Engineering*. In the academic year 2021-2022, on 1.10.2021 it will be two exits from the system and two entries in the system (these have already occurred on 29.07.2021 with the approval of the UVT Senate).

The mission of IOSUD is to organize doctoral education in UVT in the fundamental fields of *economic sciences, humanities and engineering sciences* and to ensure the training and development of competent human resources in conducting scientific research, capable of insertion in the highly qualified labor market.

The Doctoral School is coordinated by the director of the *Doctoral School and the Doctoral School Council* (CSD). The director of the Doctoral School is assimilated to the director of the department and has an eminently didactic and research activity. All the managerial decisions taken by the director of the Doctoral School aim at improving the didactic and research activity. CSD is assimilated to the department council. The director of the Doctoral School is appointed by the director of CSUD and is a full member of CSD and CSUD.

The Director of the Doctoral School exercises competencies and fulfills attributions decided by CSUD or established by the Director of CSUD, ensuring the management and operative administration of the Doctoral School ([Annex 3](#)).

The objectives of IOSUD are:

- promoting procedures and principles for quality assurance in the organization and development of doctoral study programs;
- providing and organizing research programs on topics of national and international interest;
- integration of doctoral students in national and international research projects;
- the accumulation of knowledge and practical skills indispensable for carrying out high-performance scientific research by organizing and developing a specific and quality training process;
- continuous guidance of doctoral students and counseling in order to publish the original results of their research;
- supporting the participation of doctoral students in prestigious scientific events and training courses in universities abroad;
- guiding and advising doctoral students in order to develop and complete doctoral theses of high scientific level;
- organization of doctorates in co-supervision with prestigious universities in the country and abroad;
- training of young researchers in the fields of economics, humanities and engineering;
- training of the skills necessary for the elaboration and management of scientific research projects;
- the formation of the critical spirit that would allow the objective evaluation of one's own research and that of other researchers.
- ensuring a good selection of candidates.

The vision that leads the activity of IOSUD towards the formulation and fulfillment of the presented mission is based on the following pillars:

- the development of scientific research in relation to the development trends at a higher qualitative level of the research activity, with the requirements of the society in general and with those of the local community - Region 7 Center, in particular;
- the development of interdisciplinary research in correlation with the comprehensive structure of the university, ensuring the capitalization of the research capacity in the identified fields of competence, as well as in interdisciplinary fields;
- the development of new research directions, with scientific, economic and socio-cultural impact, contributing to the solution of the current problems of the society, but also to the development of researches with a long-term impact on it.

## 1.2 The Doctoral Schools

The doctoral schools of *Economic and Humanities* (SDSEU) respectively *Engineering Sciences* (SDSI) were established as a structure within IOSUD-UVT, by the Decision of the UVT Senate no. 105D of March 9, 2012.

In the SDSEU structure we find the fields: *History* (O.M. 4227 / 02.08.2001), *Accounting* (O.M. 5660 / 12.12.2005) and *Management* (O.M. 1436 / 02.07.2007).

In the SDSI structure we find the fields: *Materials Engineering* (O.M. 3333/08 / 03.2000), *Electrical Engineering* (O.M. 3597 / 14.04.2010) and *Mechanical Engineering* (O.M. 4966 / 31.08.2010).

Deriving from the mission assumed at the level of the higher education institution of which they are part, the doctoral schools have a double mission, *didactic and scientific research*.

The *didactic mission* aims to:

- training of doctoral students in order to acquire and improve the knowledge and skills necessary for research in the specified fields;
- acquiring and improving the skills of doctoral students, in order to develop and manage scientific research projects in the fields specified above;
- educating doctoral students in the spirit of the ethics of scientific research;
- training the critical spirit in the objective evaluation of the research results;
- training of specialists in the field, in order to enter the highly qualified labor market: higher education, research and development.

The *scientific research mission* mainly aims to:

- supporting the participation of doctoral students in national and international competitions and research programs;
- producing new knowledge in the field; promoting scientific research from an interdisciplinary and multi-disciplinary perspective; supporting the dissemination of knowledge, by participating in national and international scientific events, publishing scientific articles;
- supporting research in areas of interest to the economy and society; initiating scientific collaboration relations with universities and research institutions from the country and abroad in order to carry out joint scientific papers, joint research, etc.

At the level of IOSUD / Doctoral Schools, an annual quality assurance program ([Annex 24.5](#)) is developed and implemented with objectives that contribute to achieving the objectives set at the UVT level. The system of objectives in the field of quality targets with priority the fields: *quality management, education / continuous training, scientific research and university creation, national and international cooperation*. For each objective, actions, deadlines, responsibilities, performance indicators and resources are specified. The system of objectives in the field of quality established at the level of IOSUD / Doctoral Schools is reviewed annually. The evaluation of the degree of achievement of the objectives is done annually and the Report on the SMC analysis at IOSUD level is prepared ([Annex 24.7](#)). The degree of achievement of the proposed objectives is evaluated based on the analysis of performance indicators. The internal audit of the quality management system is carried out annually and is carried out by the internal auditors ([Annex 24.1](#)), under the coordination of the *Quality Assessment and Assurance Department (CEAC) and the Quality Assessment and Assurance Commission (CoEAC)* ([Annex 24.1](#)), the results being recorded in the form of a Report ([Annex 24](#)). The internal audit is carried out on the basis of the annual program approved by the University Senate and the audit plan ([Annex 24](#)). The quality management system at UVT level is ISO 9001: 2015 certified ([Annex 24.3](#)). The external supervision audit of SMC is performed by AEROQ Bucharest ([Annex 24](#)).

Within the IOSUD / Doctoral Schools, the provisions of the UVT *Code of Ethics and Professional Ethics* apply ([Annex 20.3](#)). The *Ethics Commission* operates in the UVT, which monitors compliance with the code of ethics and investigates cases of deviations from professional ethics and proposes to the UVT management the necessary measures. The reports of the ethics commission are made public on the university's website <http://www.valahia.ro/ro/comisia-de-etica>.

Within SDSEU active on 1.10.2020 ([Annex 11](#)):

- 11 doctoral supervisors in the field of History - prof. Silviu-Marian MILOIU, prof. Mircea-Costel ANGHELINU, prof. Ionel CALAFETEANU, prof. Marin CÂRCIUMARU, prof. Sergiu MUSTAȚĂ, prof. Ioan OPRIȘ, prof. Gheorghe SBÂRNĂ, conf. Claudiu-Ion NEAGOE, conf. Monica MĂRGĂRIT, conf. Marian COSAC, prof. Ion STANCIU; from 1.10.2021 prof. Ion Stanciu will no longer be active in SDSEU - History;
- 5 PhD supervisors in the field of Accounting - prof. Veronica ȘTEFAN, prof. Ion CUCUI, prof. Emilia VASILE, prof. Victor MUNTEANU, prof. Ștefan POPA;
- 7 doctoral supervisors in the field of Management - prof. Mihai MIEILĂ, prof. Marius PETRESCU, prof. Delia Mioara POPESCU, prof. Constanța POPESCU, prof. Ion STEGĂROIU, prof. Ion PÂRGARU, prof. Mohammad H. JARADAT.

Within SDSI active on 1.10.2020:

- 5 PhD supervisors in the field of Materials Engineering - prof. Rodica-Mariana ION, prof. Vasile BRATU, prof. Ildiko PETER, prof. Nicolae ANGELESCU, prof. Gheorghe IONIȚĂ; from 1.10.2021 prof. Gheorghe Ioniță will no longer be active in SDSI;
- 4 doctoral supervisors in the field of Electrical Engineering - prof. Dinu COLȚUC, prof. Valentin DOGARU-ULIERU, prof. Horia ANDREI, prof. Nicolae VASILE;
- 3 doctoral supervisors in the field of Mechanical Engineering - prof. Viviana FILIP, prof. Cornel MARIN, prof. Gheorghe GHEORGHE. From July 29, 2021, they were joined (by the approval of the UVT Senate) by 2 more doctoral supervisors - Assoc.Prof. Ivona Camelia PETRE and Senior Researcher CSI Cristinel Ioan ILIE.

Within UVT we find the *Institute for Multidisciplinary Scientific and Technological Research* (ICSTM), a project made from European funds worth about 13 million EURO. The institute operates 17 research centers ([Annex 17.1a](#)) whose activity covers all 6 doctoral fields. Teachers and students have free (but controlled) access to ICSTM laboratories. The research infrastructure can be found at <https://eeris.eu/erif-2000-000y-0122>.

At the same time, the laboratories within the profile faculties are used for research, these being specified in the reports of each field.

Through collaboration agreements, doctoral students can have access to the research infrastructure of national institutes (e.g. *National Institute of Research and Development for Mechatronics and Measurement Technique* - INCDMTM, *National Institute of Research and Development for Chemistry and Petrochemistry* - ICECHIM Bucharest or *IT Center for Science and Technology* CITST Bucharest) or, in certain situations, to the resources of some laboratories from abroad (e.g. Dubna).

We also mention the unrestricted access to the documentation resources of the UVT Library, including the electronic resources (<https://biblioteca.valahia.ro/resurseonline>). The UVT library is located on seven locations, totaling an area of 1634 m<sup>2</sup>, to which is added the reading space of research centers and student dormitories (1266 m<sup>2</sup>), with a number of 133470 publications (October 1, 2017); In terms of equipment, they are 44 + 1 server.

UVT has an institutional capacity that allows its proper functioning and the provision of high quality educational services. UVT has its own student recruitment and admission policy and applies it in a transparent and rigorous manner, respecting the principle of equal opportunities for all candidates, without any discrimination.

The selection of candidates aspiring to student status is made through an admission contest. The admission contest in IOSUD-UVT is carried out in accordance with the *Methodology of organizing and conducting the admission contest for doctoral studies* ([Annex 25](#)) and the *Methodology for admission of Romanians everywhere* developed in accordance with the framework methodology of the Ministry public. The information regarding the admission as well as the educational offer are made public on the UVT website (<http://www.valahia.ro/ro/admitere-ro>), in the local press and in advertising materials (posters, leaflets and the candidate's guide). Through these means, prospective students have access to information at least six months before the start of the admission process.

Each study / specialization program within UVT is based on the correspondence between the results in learning, respectively research in the case of master's or doctorate, and the university qualification. A study program is presented in the form of a package of documents that includes: the general and specific objectives of the program; the curriculum with the weights of the subjects expressed through study credits (ECTS) and with the subjects ordered successively during the schooling; the files of the disciplines included in the curriculum, respectively the learning outcomes expressed in the form of the cognitive, technical or professional and affective-value competences that are achieved by a discipline; how to examine and evaluate each discipline, taking into account the planned results; the organization and contents of the final exam, as a summative exam that certifies the assimilation of cognitive and professional skills that correspond to the university qualification.

The quality of university study programs for each doctoral field is ensured, among others, by the content of the curriculum structured both on advanced knowledge disciplines completed in the first year of study and completed with exam, and by the content of the disciplines for complementary training, respectively the activity of scientific research.

The subject sheets reflect the concerns of teachers and management structures at the Doctoral School level to focus the educational approach on learning outcomes. The courses address theoretical and especially methodological aspects, but focus on their applicability in scientific papers written by PhD students. The subject sheets include, among others, the following sections: the objectives of the discipline (general and specific objectives of the discipline), the contents of courses and seminars, the methods and teaching aids used, a section aimed at corroborating the contents of the discipline with the expectations of epistemic representative employers in the field of the program and an evaluation section. The subject sheets explicitly provide the professional and transversal competencies (based on the grid of specific skills acquired) that doctoral students must acquire after completing each discipline. The content of the discipline sheet covers all the requirements mentioned by this indicator. The subject sheets are prepared according to a standardized form within the Quality Management System.

For the subjects in the training program based on advanced university studies, doctoral students take exams in which the acquired knowledge is verified. The curriculum also provides for three reports presenting the progress of the research, which ends with a colloquium held in front of the steering committee. They allow strict monitoring of the progress of the doctoral research activity and the adoption of measures to boost or correct the doctoral path, when deemed necessary.

The scientific research activity developed and supported by UVT is one of the most important methods of teacher training and research, education for innovation of university students regardless of the form of studies. Thus, in the current *Strategic Plan* ([Annex 7](#)), the integration of research is considered as a central component in the process of preparing students, both as a future efficient and efficient human resource, capable of insertion into the labor market in a knowledge-based society, as well as in their preparation for a higher level of study.

The assessments of the research results carried out by the UVT staff at national and international level also result from the citations of the articles whose authors are PhD students, researchers and university teachers, especially in the fields of engineering and history. Awards, patents and research projects are results that we can identify in the files of each field.

For the monitoring and reporting of the research activity, the scientific research platform was developed. The platform collects the entire scientific production, respecting the research indicators required both in the reports of the research activity and in the minimum standards for promotion on teaching and research positions. In the next period, the platform will go through a restructuring process in terms of hardware resources but especially of programming technologies and access to the database.

The valorization of the results of scientific research carried out in doctoral fields take place in scientific events held at the university or by publication in specialized journals, including ISI or BDI indexed journals published under the auspices of UVT as - *Revue du Valachia d'Etudes Economiques - in French and Wallachian Journal of Economic Studies, The Scientific Bulletin of Electrical Engineering Faculty and The Scientific Bulletin of Wallachia University Materials and Mechanics* - in English. The last two are BDI indexed by De Gruyter.

*Journal of Science and Arts* is the ISI indexed journal of UVT, a journal in which we find publications of UVT doctoral students, especially in the engineering fields of IOSUD.

Also, the *Scientific Research Symposium* has become a tradition, an event in which teachers, researchers, PhD students and students participated and presented research results. The results of the scientific research activity are also criteria for assessing the activity of both doctoral students and all teachers, researchers and students working in the higher education institution.

### **1.3 The doctoral study domains managed by the Doctoral Schools of the IOSUD**

As already mentioned, we find in the SDSEU structure the fields: *History* (OM 4227 / 02.08.2001), *Accounting* (OM 5660 / 12.12.2005) and *Management* (OM 1436 / 02.07.2007) and in the SDSI structure the fields: *Materials engineering* (OM 3333/08 / 03.2000), *Electrical Engineering* (OM 3597 / 14.04.2010) and *Mechanical Engineering* (OM 4966 / 31.08.2010) ([Annex 2](#)).

For all areas the objectives are identical:

- creation of an education and research pole of excellence for the field of electrical engineering;
- specialized human resource training for high level activities, with a strong research component;
- increasing the national and international visibility of UVT;
- ensuring the necessary conditions for participation in international professional training and research programs in the field.

The mission of each doctoral program in any of the fields is didactic and research, respectively to deepen the knowledge acquired by students in the master's cycle and to train the specific competencies of scientific research, these components being previously detailed.

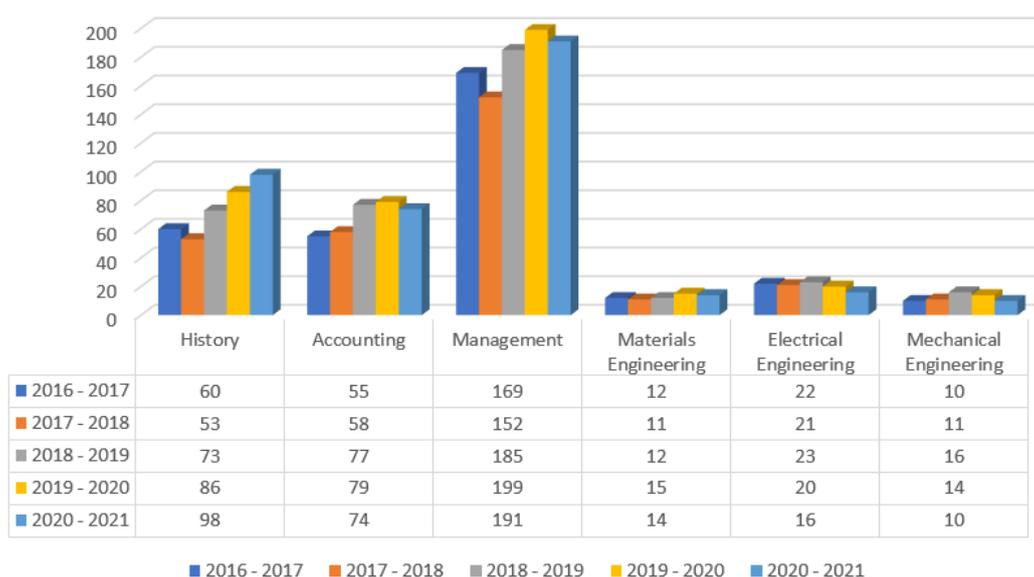
The curricula are set out in [Annex 9](#). The curricula cover a period of 3 years and include the advanced study program (30 transferable credits) and the scientific research program (150 transferable credits). The training program based on advanced university studies includes 4 specialized courses and documentation activity, information in the field of research topic (SDSEU) or 3 specialized courses in the form of individual study for advanced knowledge subjects (SDSI) respectively two disciplines of general interest, *Ethics and Academic Integrity and Research Methodology* (SDSEU / SDSI).

Each discipline ends with a colloquium in which the acquisition of skills is checked (knowledge of the fields, synthesis capacity, critical analysis, ability to evaluate results, etc. The curriculum also provides three Reports presenting the progress of research, elaboration and defense of the doctoral thesis.

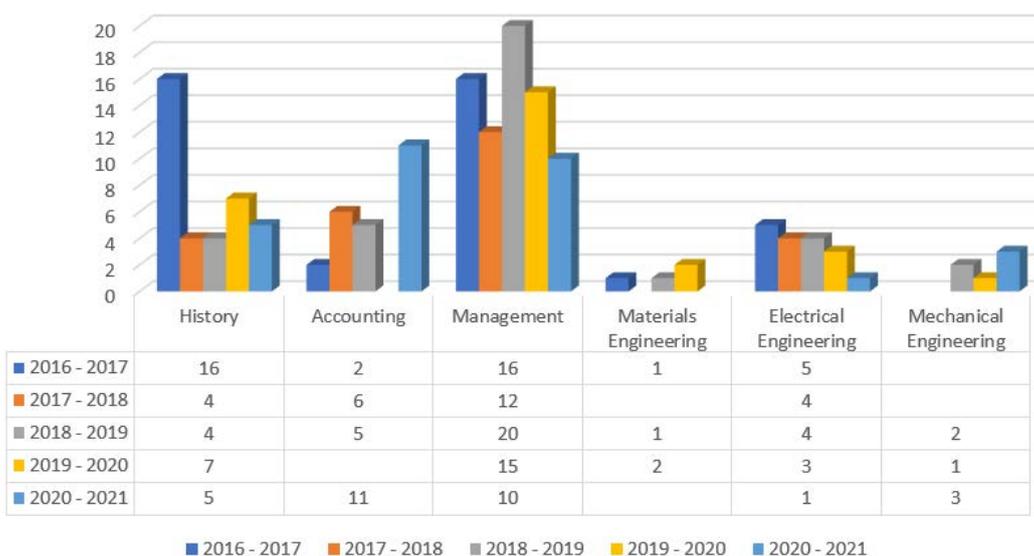
The two doctoral schools have: 11 scientific supervisors in the field of *History* (10 starting with October 2021), 5 doctoral supervisors in the field of *Accounting*, 7 scientific supervisors in the field of *Management*, 5 scientific supervisors in the field of *Materials Engineering* (4 starting with October 2021), 4 PhD supervisors in the field of *Electrical Engineering* and 3 scientific supervisors in the field of *Mechanical Engineering* (5 starting with August 2021).

In the last 5 years, the evolution of the number of doctoral students (ANS report) and doctors (1.01.2016 - 30.09.2021) is presented in the following figures.

PhD students reported in ANS on January 1



Doctoral thesis



We will further present the main scientific achievements, the specific research centers and laboratories. They can be found in the specified annexes as well as in the files of each domain, in extenso.

**History:** The scientific achievements of the doctoral students who completed the doctoral internship in the five years subject to evaluation are reflected in: 3 books published by international publishers (published doctoral theses), 17 books published by publishing houses in the country, 11 book chapters, an ISI article, two ISI proceedings and 32 BDI articles. A complete list of them can be found in [Annex 18](#).

The History field benefits from material endowments adequate to each research subdomain. It owns two research laboratories located within the Multidisciplinary Scientific and Technological Research Institute (I.C.S.T.M.) from Aleea Sinaia, no. 13, which have the necessary endowments for the scientific research activity. The Cultural Heritage Laboratory benefits from an important research dowry, fully correlated with its objectives and needs: 1 digital microscope with VHX 600 fiber optics, 1 stereo binocular microscope Optika, 1 stereomicroscope Olympus BX53M, 1 optical microscope SZ61 Olympus, 1 printer with Canon PIXMA IX6850 jet, 1 HP LaserJet Pro M1536 All-In-One, 1 Microtek Scan Maker i800 Plus scanner, 2 laptops, 1 desktop, 1 microscope, 1 Nikon total station, 1 theodolite, 1 Janetzki centrifuge, 2 cameras, 1 camcorder. The second research laboratory is dedicated to modern, contemporary history and the history of international relations, benefiting from the contribution of a multifunctional reader of microfilms and microfiches, four laptops, two computers, three multifunctional, three printers, a mini-library, special performance photography and so on. Also, within SDSEU for all 3 areas there is a very generous room equipped with a library where the leading professors and doctoral students work, where the consultations, doctoral courses, etc. take place. It is equipped with over 600 volumes, numerous computers, printers, multifunction, video projector, projection board, etc.

**Accounting:** The scientific output of doctoral students who obtained the title of doctor in the evaluated period is 121 articles in BDI indexed journals, and 46 papers were presented at international conferences in the country or abroad. The complete list of outstanding results is attached in [Annex 18](#). Doctoral students in internships for the evaluated period also register multiple participations in international conferences organized physically or online. At the same time, it disseminates the research carried out by publishing articles in BDI indexed journals.

PhD students have free access to ESF laboratories (out of hours - bachelor / master), within the *Center for Research and Studies in Accounting and Finance (CCSCF)*, as well as to other research facilities in the ICSTM structure, as they can facilitate conducting studies and experiments, access to certain computing resources (hardware and / or software), in order to obtain results that the research they carry out, especially in the area of information technology, with the related subdomains, but not limiting). The university laboratories facilitate the free access of doctoral students to resources, technical assistance, endowment with equipment and software, with national and international recognition, with metrological checks in time and complete documentation on how to use, maintain and work for using the maximum capacities to capitalize on the technical possibilities. SDSE doctoral students have free access (outside the schedule - bachelor / master) to ESF research laboratories, as the main research infrastructure at their disposal ([Annex 17.3](#)).

**Management:** The scientific production of doctoral students in the evaluated period is: 5 single author books published in national publishing houses and 5 book chapters published in international publishing houses, 10 articles published in ISI listed journals (including those published in ISI proceedings), 236 articles in BDI indexed journals, 207 participations in international conferences and 130 articles published in the volumes of those conferences ([Annex 18](#)).

PhD students have free access to ESF laboratories (out of hours - bachelor / master), within the Center for Research and Studies in Management and Marketing (CCSMM), as well as to other research facilities within the ICSTM structure, as they can facilitate them. conducting experiments, access to certain computing technology resources (hardware and / or software), in order to obtain results that the research they carry out (especially in the area of information technology, with the related subdomains, but not limiting).

**Materials engineering:** The scientific output of doctoral students in the evaluated period is: 4 book chapters (national and international), 72 articles published in ISI listed journals (including those published in ISI proceedings), 21 articles in BDI indexed journals, and 39 articles were presented at international conferences. The complete list of outstanding results is attached in [Annex 18](#). We find 5 articles Q1 / Q2. The doctoral students obtained 19 awards, 5 patents and 11 patent applications were filed. 1 project was won in the Horizon 2020 competition by one of the graduates.

SDSI-IM PhD students have unrestricted access to the research and documentation infrastructure of UVT, respectively IOSUD, the *Faculty of Materials Engineering and Mechanics* (FIMM) and the *Institute for Multidisciplinary Scientific and Technological Research* (ICSTM, [Annex 17.2a](#), [Annex 17.2b](#)). SDSI-IM PhD students are members of the ICSTM Research Centers where their doctoral supervisors carry out their research activity, namely the *Nanomaterials Research Center for Mechanical Microsystems - CC-NANOMECH* (Rodica Mariana ION), the Research Center „*Academic School of Science Materials*”(Vasile BRATU).

**Electrical engineering:** During the evaluated period, 17 doctoral theses were defended. The scientific output of PhD students during this period is 77 publications: 11 book chapters, 11 articles published in ISI journals, 19 articles in BDI indexed journals, 32 articles presented at ISI indexed conferences and 5 at BDI indexed conferences. Of the 77 publications, 48 (62%) are indexed by ISI. The complete list of publications from the last 5 years can be found in [Annex 18](#). We find 4 articles Q1 / Q2. The doctoral students obtained 4 awards. 1 project was won in the UEFISCDI PD competition by one of the graduates.

SDSI-IE PhD students are members of the ICSTM research centers where their doctoral supervisors carry out their research activity, namely the *Research Center in Electrical Engineering, Electronics and Information Technology - CC-IEETI* (H. Andrei, D. Coltuc), *Electric Vehicle Research Center - CCVE* (V. Dogaru-Ulieru) and *Energy-Environment Research Department - DCEM* (N. Vasile). We list the ICSTM laboratories to which SDSI-IE doctoral students have access, grouped by research centers, the description of the main equipment being present in [Annex 17.2a](#) si [Annex 17.2b](#).

**Mechanical engineering:** The scientific production of doctoral students in the evaluated period is presented in [Annex 18](#) and consists of 66 papers. They have published 3 books / book chapters, 4 articles in WoS-ISI rated journals (of which two in Q2 journals), 2 articles in WoS-ISI indexed journals, 4 articles in WoS-ISI indexed proceedings, 23 articles in journals indexed BDI and 21 in BDI indexed proceedings (of which 4 abroad). We find 2 items Q1 / Q2. The doctoral students obtained 16 awards, 6 patents and 3 patent applications were filed.

SDSI-IMEC doctoral students have unrestricted access to the research and documentation infrastructure of UVT, respectively of IOSUD, of the Institute for Multidisciplinary Scientific and Technological Research (ICSTM) - <https://erris.gov.ro> - Wallachia and the Faculty of Materials Engineering and Mechanics from the University of Wallachia in Târgoviște (FIMM). SDSI-Mechanical Engineering PhD students are members of the ICSTM research centers where their doctoral supervisors, the "*Nanomaterials for Mechanical Microsystems*" Research Center (CC-NANOMECH) and the "*Academic School of Materials Science*" Research Center (CC-SASM) carry out their research activity.

## 1.4 The functioning of the internal quality assurance system at the IOSUD level

The *quality management system* (SMC) has been implemented in the UVT since 2005 in accordance with the legal provisions - GEO 75/2005 on ensuring the quality of education. The quality assurance code ([Annex 24.2](#)) entered into force on 09.04.2013 being elaborated by the UVT Senate, the principles being specified in Art. 7 and the objectives in Art.8.

SMC represents (Art. 4) the coherent set of mechanisms, procedures, criteria, standards and performance indicators constituted by the adaptation and detailing of the quality assurance standards to the particularities of UVT and to the requirements of the institutional quality management. In Art.12 we find the *Commission for Evaluation and Quality Assurance in IOSUD* (CEAC-IOSUD) the code making clarifications regarding various other structures in the UVT with attributions in the evaluation and quality assurance. In Art.18 we find the person in charge of quality at IOSUD level and the need to make an *internal evaluation report on the quality of education in IOSUD*, every year.

The quality assurance policy ([Annex 24.4](#)) is an official, mandatory and necessary document, through which the Rector assumes on behalf of the university community, *the intentions and general orientations* of the institution regarding institutional capacity, educational effectiveness and quality management. It is a public document. The policy must be appropriate to the purpose and context of the institution and support its strategic direction, provide a framework for setting the quality objectives and include a commitment to meeting the applicable requirements and for the continuous improvement of the QMS.

The quality management system uses structures such as the *Quality Assessment and Assurance Department* (ROF), the *Quality Assessment and Assurance Commission* (ROF, composition [Annex 24.1](#)), the *Monitoring Commission* (ROF, composition [Annex 24.1](#)) all having a close collaboration with CEAC-IOSUD. There are structures at UVT level that interact with all CEAC structures distributed in the university. The co-ordinator of the activities of these structures at UVT level is the vice-rector in charge of education and quality assurance.

In UVT the system was audited by a third party (AEROQ) on 31.05.2010, 2013, 2016 and 28.11.2019 (certification audit) respectively every year starting with 2010 through surveillance audits. It could be seen in [Annex 24.3](#) the last offered certificate certifying the UVT system as compliant with ISO 9001: 2015, EN ISO 9001: 2015 in the fields:

- higher education activities on bachelor's, master's, training and continuous professional development and professional conversion cycles;
- scientific research, design, innovation, consultancy, technical expertise and technology transfer activities;
- educational activities corresponding to the preparatory year for learning the Romanian language by foreign students;
- activities for the training and improvement of the teaching staff in pre-university education (initial and continuous training)
  
- **doctoral higher education activities (full-time education) for the fields of doctoral studies: accounting, management and history / materials engineering, electrical engineering and mechanical engineering (for doctoral schools)**
- **scientific research activities, design, innovation activities (for doctoral schools)**

In order to maintain the certification, the external audit is the last step of an audit action, carried out annually, and which includes an internal audit process performed by *internal auditors* (certified or in training; composition [Annex 24.1](#)). The audit action involves an *internal audit program* ([Annex 24](#)) or *external audit* ([Annex 24](#)) and an *internal audit report* ([Annex 24](#)) and *external audit* ([Annex 24](#)). In the internal audit process UVT collaborates with an external consultant through S.C. EDGE CONSULT S.R.L. For the observations retained during the internal audit, action plans shall be drawn up in order to keep them under control and resolve them. Internal audit reports have never contained non-compliances. The audit process is completed at the UVT level with the report *Analysis performed by the management of SMC* ([Annex 24.7](#)) which includes measures to improve quality.

During a calendar year there are two more reports in which the information produced by the internal quality assurance system at the UVT level is centralized - *University Status Report* (RASU) presented by the Rector in the Senate and the *Annual Internal Quality Assessment Report education in UVT* ([Annex 24.8](#)) presented by the vice-rector in the Board of Directors, endorsed by the Board and approved by the Senate.

The documents to be prepared by IOSUD during a calendar year regarding the internal quality assurance are:

- operational plan
- quality objectives ([Annex 24.5](#))
- risk register ([Annex 24.6](#))
- report on the analysis of the Quality Management System in IOSUD - UVT ([Annex 24.7](#))

In [Annex 24](#) could be found *Regulations, Methodologies, Procedures, Formulations* as follows:

#### Regulations

REG 01 IOSUD	Regulation on the organization and functioning of IOSUD
REG 01 SDSEU	Regulation of the Doctoral School of Economics and Humanities
REG 01 SDSI	Regulation of the Doctoral School of Engineering Sciences
REG 10	Institutional regulation for the organization and development of doctoral programs
REG 17	Framework Regulation on the organization and functioning of the IOSUD in the WTO and the organization and conduct of elections for its governance structures and functions
REG 32	Institutional regulation for the organization and development of the habilitation process for doctoral management
REG 41	Institutional Regulation for the organization and conduct of postdoctoral programs for advanced research

#### Methodologies

M 01	Methodology for conducting the public competition for the position of director of the Council for Doctoral Studies
M 04	Methodology for drawing up the self-assessment report of the IOSUD activity
M 08	Methodology for electing the members of the Doctoral School Council and for appointing the director of the Doctoral School
M 09	Methodology for appointing the members of the Council for Doctoral Studies
M 11	Methodology for organizing the admission to doctoral university studies for the academic year 2020 - 2022
M 17	Methodology for organizing and conducting admission to postdoctoral programs for advanced research
M 20	Methodology for resolving complaints regarding non-compliance with quality or professional ethics standards in doctoral theses
M 21	Methodology for evaluating doctoral theses by the guiding committee
M 22	Methodology for organizing and carrying out the process of obtaining the habilitation certificate

## Procedures

PO 06.14	Evaluation of the scientific activity of doctoral supervisors
PO 07.26	Completion of doctoral studies
PO 07.27	Anti-plagiarism check
PO 07.28	Organizing and carrying out the admission to the cycle of doctoral studies
PO 07.34	Organizing and carrying out the process of obtaining the habilitation certificate
PO 07.37	Recognition of the doctoral degree obtained abroad
PO 07.38	Recognition of the quality of doctoral supervisor obtained abroad
PO 07.41	Online evaluation of students, doctoral students, trainees and postdoctoral researchers
PO 07.43	Completion of doctoral studies using alternative teaching methods
PO 07.44	Organizing and conducting online the process of obtaining the authorization certificate

## Formulations

F 059.2010	Job description
F 060.201	Annual self-assessment activity sheet job description
F 603.2018	IOSUD teacher self-evaluation form

At IOSUD level, the internal quality assurance system involves in management, monitoring and evaluation - CSUD director, doctoral school principals, quality manager, CEAC-IOSUD (composition in [Annex 24.9](#)), in which we find the student involved in this process.

The system of evaluation and quality assurance through the activities carried out annually, keeps under control certain processes such as those of admission, habilitation, completion of doctoral studies, evaluation of scientific activity, elections, etc. The system is perfectible. There are tools that need to be streamlined, such as evaluating the work of PhD supervisors and others that are at the beginning of the road and will be adjusted along the way, such as evaluating doctoral services and processes through the feedback provided by students and graduates. In [Annex 22.3](#) could be identified the questionnaires for students and graduates as well as their recommendations and in [Annex 22.4](#) the plan of measures (e.g. *electrical engineering*).

The image shows a web browser window displaying a questionnaire. The title is 'Chestionar de opinie adresat absolventilor programului de doctorat'. The text on the page is in Romanian and asks for feedback on infrastructure, logistics, and academic support services. There are two questions, each with a 'Select your answer' dropdown menu.

Looking at the ARACIS standards and the evaluation indicators, we appreciate that their appearance and existence will lead to a control of the activity and processes beneficial to the system. In a relatively short period of time and on the basis of a targeting plan, the fulfillment of the criteria now, partially fulfilled, will be able to be done without problems. The quality assurance system will allow for changes, corrections and preventive control through the internal and external evaluations it now has.

## 2. THE INFORMATION NECESSARY TO EVALUATE THE EXTENT TO WHICH THE PERFORMANCE CRITERIA, STANDARDS AND INDICATORS

### A. INSTITUTIONAL CAPACITY

#### A.1. The administrative, managerial institutional structures and the financial resources

**A.1.1. The institution organizing doctoral studies (IOSUD) has implemented the effective functioning mechanisms provided for in the specific legislation on the organization of doctoral studies.**

**A.1.1.1. The existence of specific regulations and their application at the level of the IOSUD, respectively at the Doctoral School(s):**

- a) the internal regulations of the administrative structures (the institutional regulations for the organization and conduct of doctoral studies programs, the regulation(s) of Doctoral School(s);
- b) the Methodology for conducting elections at the level of the Council of University Doctoral Studies (CSUD), respectively at Doctoral School(s) including elections by the students of their representatives in CSUD/Council of the Doctoral School (CSD) and the evidence of their conduct;
- c) the Methodologies for organizing and conducting doctoral studies (for the admission of doctoral students, for the completion of doctoral studies);
- d) the existence of mechanisms for recognizing the status of a Doctoral advisor and the equivalence of the doctoral degree obtained abroad;
- e) functional management structures, at the level of CSUD/CSD, with evidence of the regularity of meetings;
- f) the contract for doctoral studies;
- g) internal procedures for the analysis and approval of proposals about doctoral study programs based on advanced academic studies.

IOSUD-UVT has developed and implemented the regulations, methodologies and procedures necessary for its operation in accordance with the legislation on the organization of doctoral studies (the documents are displayed on the website <https://www.scoaladoctorala.valahia.ro/>). We detail the required subpoints:

- a) *REG 01 - SDSI respectively SDSEU* - Edition 3, approved by the Senate of the University of Valahia from Târgoviște through HSU Nr. 61 E / 29.01.2020, entered into force on: 29.01.2020 ([Annex 25](#)).
- b) *M01 - Methodology for conducting the CSUD director competition for filling this position* ([Annex 25](#)) - which provides the framework for organizing the CSUD director competition, a competition won in 2017 by prof.dr. Marius PETRESCU; from 2021, by his retiring, the position is taken over, until the contest organization, by prof.dr. Rodica-Mariana ION;  
*M08 - Methodology for electing the members of the Doctoral School Council* and for appointing the director of the doctoral school, approved by HS 22Q /27.04.2017 ([Annex 25](#)).
  - The directors of the two doctoral schools are appointed by the CSUD director for a term of 5 years (art. 2, M08) in accordance with art. 14.9 GD 681. The director of SDSI is Dinu COLȚUC and the director of SDSEU is prof. Delia POPESCU;
  - The CSUD members elected in 2017 (HSU 27 O / 31.07.2017) were Rodica-Mariana ION and Constanța POPESCU ([Annex 4.1](#)) respectively in 2020 are Viviana FILIP and Mihai MIEILĂ;
  - The elections for the appointment of the CSUD member doctoral student respectively CSD took place in two rounds, on 7.07.2017 and 14.07.2017 (representative in CSUD, Ciprian Florinel BUHUȘI, representative CSD - SDSI - Liviu OLTEANU and CSD - SDSEU - Ciprian Florinel BUHUȘI).

- On 15.04.2021, they were elected for CSUD - Cristina Roxana CĂLINOIU, for CSD - SDSI - Corneliu Gabriel BUICA and for CSD - SDSEU - Cristina Roxana CĂLINOIU, the elections being validated by the UVT Senate through HSU no. 26C of 22.04.2021 ([Annex 4.2](#)).
- c) methodologies for organizing and conducting doctoral studies: (admission of doctoral students, completion of doctoral studies):
- REG 10 - *Institutional Regulation for the organization and development of doctoral study programs at the University of Wallachia in Targoviste* revised and approved by the Senate of the University of Wallachia in Targoviste on 31.01.2019 ([Annex 25](#)).
  - *M11 - Methodology for organizing the admission to doctoral studies*, approved by the Senate of the University of Wallachia in Târgoviște on 26.04.2018 (HS 10B), entered into force on: 26.04.2018 ([Annex 25](#)).
  - *OP 07.28 Organization and conduct of admission to the cycle of doctoral studies*, approved by the Monitoring Commission on: April 2, 2018, approved by the Senate of the University of Wallachia in Targoviste on April 26, 2018 ([Annex 25](#)).
  - *OP 07.26 Completion of doctoral studies*, approved by the Monitoring Commission on: April 2, 2018, approved by the Senate of the University of Wallachia in Targoviste on April 26, 2018 ([Annex 25](#)).
  - *OP 07.43 Completion of doctoral studies using alternative teaching methods* ([Annex 25](#)).
- d) the existence of the mechanisms for recognizing the quality of doctoral supervisor and for equivalence of the doctorate obtained in other states;
- *OP 07.37 Recognition of the doctoral degree obtained abroad*, approved at the meeting of the Monitoring Commission on 06.12.2018, approved at the meeting of the University Senate on 19.12.2018 ([Annex 25](#)).
  - *OP 07.38 Recognition of the quality of doctoral supervisor obtained abroad*, approved in the meeting of the Monitoring Commission on 06.12.2018, approved in the meeting of the University Senate on 19.12.2018 ([Annex 25](#)).
- e) functional management structures (Doctoral School Council), proving also the regularity of convening the meetings:
- The CSUD is constituted according to *M 09* and has the composition above-mentioned. The minutes of the assessed period are set out in [Annex 4.3](#).
  - The CSD is constituted according to *M 08* and has the composition above-mentioned. The management structures, the CSD meet as many times as necessary (at least twice a year). The minutes of the assessed period are set out in [Annex 4.4](#) for SDSEU, and [Annex 4.5](#) for SDSI, respectively.
- f) The doctoral studies contract is presented in [Annex 6](#).
- g) The training program based on advanced university studies is regulated in Art. 8-Art. 10 of REG 01 ([Annex 25](#)).

**A.1.1.2. The doctoral school' Regulation includes mandatory criteria, procedures and standards binding on the aspects specified in Article 17, paragraph (5) of the Government Decision No. 681/2011 on the approval of the Code of Doctoral Studies with subsequent amendments and additions.**

The SDSEU and SDSI regulation ([Annex 25](#)) addresses the aspects from art. 17 para. (5) of GD 681/2011 with subsequent amendments and completions. So:

- a. the acceptance of new leading members of the doctorate is regulated in Art. 7.1, and the withdrawal of the quality of member of the doctoral school in Art. 7.2;
- b. the training program based on advanced university studies is regulated in Art. 8-Art. 10;
- c. the change of the doctoral supervisor is discussed in Art.13.7-13.9, and the mediation of conflicts in Art. 13.5-13.6;
- d. the interruption of the doctoral program is established at Art.14.3-14.6;

- e. the prevention of fraud in scientific research, including plagiarism is discussed in Art. 13.10-13.12, Art. 20.17;
- f. the access of doctoral students to research and documentation resources is provided in Art. 11.3; Article 15.g;
- g. in Art. 17. 2 it is specified that the doctorate at SDSI is full-time or part-time, and in Art. 15.2.b it is specified that the doctoral student must carry out the activities provided in the individual plan of doctoral studies under the conditions of frequency set by the doctoral supervisor.

**\*A.1.1.3. Doctoral schools included in IOSUD are organized as disciplinary or interdisciplinary disciplines/thematic, according to Article 158, paragraph (7) of the Law of National Education No. 1/2011 with subsequent amendments and additions.**

The doctoral schools of *Economic and Humanities* (SDSEU) respectively *Engineering Sciences* (SDSI) have been founded as a structure within IOSUD-UVT, by the Decision of the UVT Senate no. 105D of March 9, 2012.

In the SDSEU structure we find the fields: *History* (O.M. 4227 / 02.08.2001), *Accounting* (O.M. 5660 / 12.12.2005) and *Management* (O.M. 1436 / 02.07.2007).

In the SDSI structure we find the fields: *Materials Engineering* (O.M. 3333/08 / 03.2000), *Electrical Engineering* (O.M. 3597 / 14.04.2010) and *Mechanical Engineering* (O.M. 4966 / 31.08.2010).

Art. 158 para. (7) of the National Education Law no. 1/2011, with subsequent amendments and completions.

**A.1.2. The IOSUD has the logistical resources necessary to carry out the doctoral studies' mission.**

**A.1.2.1. The existence and effectiveness of an appropriate IT system to keep track of doctoral students and their academic background.**

IOSUD uses UMS (*University Management System*), an integrated software product developed by Red Point Software Solutions ([https://rpss.ro/ro\\_RO/products/university-management-system/](https://rpss.ro/ro_RO/products/university-management-system/)).

The product allows the management of schooling for the entire cycle, from admission to completion of studies and allows the integration of both aspects related to the academic-didactic organization, list of positions ([Annex 8](#)), and tools dedicated to the management of processes and documents.

Currently, UMS is used in 24 Romanian universities. UVT has been using UMS since 2011. In IOSUD, UMS has been used since 2018.

**A.1.2.2. The existence and use of a software program and evidence of its use to verify the percentage of similarity in all doctoral theses.**

All doctoral theses are verified, since 2016, with [www.sistemantiplagiat.ro](http://www.sistemantiplagiat.ro). *Sistemantiplagiat.ro* is a program for detecting the similarity of texts created in 2002 by the Polish company Plagiat.pl, launched in Romania in 2012.

*Sistemantiplagiat.ro* is in the list of programs recognized by CNATDCU for establishing the degree of similarity for scientific papers, published in the MENCS Order no. 3485 of March 24, 2016 but also in OM 5629 of 2020. Currently, the program is used by 54 universities (ASE, Univ. Bucharest, UMF, ATM, etc.). The program calculates two similarity coefficients: for the calculation of the similarity coefficient 1, all the phrases discovered by the system in other documents are taken into account; for the calculation of the similarity coefficient 2, only the sentences whose length exceeds the imposed limit are taken into account.

UVT has developed a procedure (PO 07.27, [Annex 25](#)) for anti-plagiarism verification of bachelor's, dissertation and doctoral theses which establishes the working method and the limits for the two coefficients. The similarity ratio provided by the program is validated by the doctoral supervisor who analyzes, in addition to the values of the coefficients, the relevance of the fragments that have been discovered by the system in other texts. In fact, since 2016, the similarity report is one of the pieces in the doctoral file that is submitted in electronic format, with electronic signature, on the platform for thesis validation by CNATDCU.

For the text under analysis, two similarity coefficients are calculated within the platform: for the calculation of the similarity coefficient 1), all the phrases discovered by the system in other documents are taken into account; for the calculation of the similarity coefficient 2), only the sentences whose length exceeds the imposed limit are taken into account. In the case of doctoral theses, the thresholds considered acceptable are: 30% for the similarity coefficient 1) and 5% for the similarity coefficient 2). Within the provisions of the Operational Procedure for anti-plagiarism verification (PO 07.27), it is explicitly specified that “bachelor's, dissertation and doctoral theses to be developed and presented” are subject to its provisions.

The statistical situation regarding the resolution obtained on the similarity coefficients for the defended doctoral theses is highlighted for the fields of doctoral studies: *History* [Annex 21.1](#) *Accounting* [Annex 21.2](#), and *Management* [Annex 21.3](#), respectively

## **A.2. Research infrastructure**

### **A.2.1. The IOSUD/doctoral schools have a modern research infrastructure to support the conduct of doctoral studies' specific activities.**

#### **A.2.1.1. The IOSUD/the doctoral school(s) present proof of its own possession or of having rented adequate spaces for research activity specific to doctoral studies (laboratories, experimental fields, research stations etc.)**

The research activity for teachers and PhD students is carried out in the UVT Campus ([Annex 17.4a](#), [Annex 17.4b](#)), în *ICSTM* ([Annex 17.2a](#), [Annex 17.2b](#)), *FIEETI* ([Annex 17.5](#)), FIMM, FSE respectively outside the Campus within FSU. The situation of the buildings owned / managed / used is presented in [Annex 10.1](#), [Annex 10.2](#) și [Annex 10.3](#).

#### **A.2.1.2. The IOSUD/doctoral school(s) has/have collaboration agreements with higher education institutions, research institutes, research networks for joint partnerships and have access for using various research infrastructures; the offer for research services is presented publicly using a dedicated platform.**

There are collaboration agreements concluded with research institutes ([Annex 19.1b](#)) such as the *National Research-Development Institute for Mechatronics and Measurement Technique* - INCDMTM, the *National Research-Development Institute for Chemistry and Petrochemistry* - ICECHIM Bucharest or the *IT Center for Science and Technology* CITST Bucharest, with private companies ([Annex 19.1a](#)) such as *Renault*, *Arctic*, *Schneider* or with higher education institutions ([Annex 19](#)).

The profile platform where UVT-IOSUD publicly presents its offer of research services is EERIS (Engage in the European Research Infrastructures System) the access area being <https://eeris.eu/ERIO-2000-000E-0044>.

#### **A.2.1.3. The IOSUD/doctoral school(s) proves that it is/are concerned with permanent renewal of the research infrastructure to provide doctoral students access to up-dated research resources, by applying to various funding competitions and using own university resources for acquiring new research infrastructure.**

ICSTM is the focal point for research resources, research centers and research reporting (eg IC2). Especially for SDSI and the fields of laboratory engineering and research infrastructure in ICSTM or profile faculties need to be constantly developed. This approach is done through UVT (government) own funds, through research projects, through services offered to the private environment, through sponsorships. The existing infrastructure is presented in [Annex 17.2a](#) and [Annex 17.2b](#) and in [Annex 17.6](#) an example of a permanent concern for the renewal of the infrastructure for the field of *Electrical Engineering*.

### A.3. Quality of Human Resource

#### A.3.1. At the level of each Doctoral School there are sufficient qualified staff to ensure a quality educational process.

##### \*A.3.1.1. The share of Doctoral advisors coordinating simultaneously more than 8 doctoral students but not more than 12 during their doctoral studies<sup>1</sup> does not exceed 20%

On 1.10.2020, 35 doctoral supervisors were active in the two doctoral schools. On 1.10.2021, 35 doctoral supervisors will also be active, but there will be 2 exits from the system (prof. Ion Stanciu - *history* and prof. Gheorghe Ioniță - *materials engineering*) and 2 entries in the system (assoc.prof. Ivona Camelia Petre and Senior Researcher degree 1 Cristinel Ioan Ilie, respectively - *mechanical engineering*).

Doctoral student / Doctoral coordinator on September 1, 2021											
	Sept 1st		Sept 1st		Sept 1st		Sept 1st		Sept 1st		Sept 1st
	2021	Accounting	2021	Management	2021	Materials Engineering	2021	Electrical Engineering	2021	Mechanical Engineering	2021
Mircea-Costel ANGHELINU	2	Veronica STEFAN	7	Mihai MIEILA	17	Rodica Mariana ION	9	Dinu COLTUC	5	Viviana FILIP	3
Silviu-Marian MILOIU	12	Ion CUCUI	16	Delia POPESCU	12	Vasile BRATU	0	Valentin DOGARU-UJERU	2	Cornel MARIN	1
Marian COSAC	3	Victor MUNTEANU	16	Marius PETRESCU	24	Ildiko PETER	1	Horia ANDREI	2	Gheorghe Gheorghe	5
Monica MARGARIT	4	Ștefan POPA	14	Constanta POPESCU	35	Nicolae ANGELESCU	3	Nicolae VASILE	6	Ivona Camelia PETRE	
Sergiu MUSTEATA	8	Emilia VASILE	8	Ion STEGAROIU	32	Gheorghe IONITA	1		15	Cristinel Ioan ILIE	
Ionel CALAFETEANU	15		61	Ion PARGARU	19		14				9
Marin CARCIUMARU	4			Mohammad JARADAT	29						
Claudiu-Ion NEAGOE	3				168						
Ioan OPRIS	14										
Gheorghe SBARNA	12										
Ion STANCIU	4										
	81										

On 1.09.2021 following the distribution of students / doctoral supervisor in the situation of coordinating more than 8 but not more than 12 doctoral students, taking into account the theses submitted for support and possible expulsions, we identify: 2/11 in the field of *history*, 3/5 in *accounting*, 7/7 in *management*, 1/5 in *materials engineering*. The percentage is  $13/35 = 37.14\%$ . Until 1.10.2023 there will be no more leaders with more than 12 PhD students and the number of those with more than 8 will be reduced to 7 which will lead to this percentage becoming 20%.

##### A.3.1.2. At least 50% of all teaching/research staff involved in teaching/research activities related to training programs for advanced university studies or in individual research/art creation programs have a full-time employment contract for an indefinite period with the IOSUD.

Considering that part of the above mentioned activities also involve the members of the guiding commission, for the year 2020 - 2021 we have: 9 (full) / 16 (full + associates) in *history*, 6/11 in *accounting*, 10/16 in *management*, 7/11 in *materials engineering*, 7/10 in *electrical engineering* and 3/5 in *mechanical engineering* which leads to  $41/69 = 59.42\%$ .

The list of holders with an employment contract for an indefinite period and of those who are associates, teachers involved in doctoral programs, can be found in [Annex 12](#).

## B. EDUCATIONAL EFFECTIVENESS

### B.1. The number, quality and diversity of candidates who submitted for the admission contest

#### B.1.1. Candidates admitted to doctoral studies demonstrate academic, research and professional performance and are diversified as social representation and by gender.

**\*B.1.1.1. Admission to doctoral study programs is based on selection criteria including: previous academic, research and professional performance, their interest for scientific or arts/sports research, publications in the domain and a proposal for a research subject. Interviewing the candidate is compulsory, as part of the admission procedure.**

According to the procedure PO 07, The organization and development of the admission in the cycle of doctoral university studies ([Annex 25](#)), art. 5.3, the admission competition consists of an eliminatory test of linguistic competence for an international language and a specialized exam, the content of which differs depending on the doctoral field. The specialized examination consists of an interview of the candidate before the examination commission, in which the scientific concerns of the candidate, his research skills and his results are analyzed, based on the research topics established by each doctoral supervisor. The topic is displayed on the site: [https://drive.google.com/file/d/1Z\\_WEtOoiA1x75lj8yJwefwonNAnj0qEk/view](https://drive.google.com/file/d/1Z_WEtOoiA1x75lj8yJwefwonNAnj0qEk/view).

#### B.1.1.2. The IOSUD/doctoral school(s) have a policy for stimulating enrollment of doctoral students coming from disadvantaged social environments, by allocating reserved positions in the admission procedure and/or granting special scholarships, as well as organizing support programs to prevent drop-outs.

During the evaluation period, 7 places were allocated for admission to candidates from disadvantaged social backgrounds (Roma) as follows: 2 places in 2017-2018, 2 places in 2018-2019, 2 places in 2019-2020, 1 place in 2018- 2019. All are found in SDSEU.

University dropout in the first 3 years after admission was reduced compared to the number of doctoral students: 17 students in *history*, 9 students in *accounting*, 38 in *management*, 2 in *materials engineering* and 1 student in *mechanical engineering*. There is no specific program for these situations but there are programs in which PhD students are involved (102), thus being financially supported for at least 6 months such as the *Development of tertiary university education in support of economic growth - PROGRESSIO*. Other PhD students are supported by a 50% exemption from tuition fees being employees of UVT.

### B.2. The content of doctoral programs

#### B.2.1. The training program based on advanced university studies is appropriate to improve doctoral students' research skills and to strengthen ethical behavior in science.

**B.2.1.1. The training program based on advanced academic studies includes at least 3 disciplines relevant to the scientific research training of doctoral students; at least one of these disciplines is intended to study in-depth the research methodology and/or the statistical data processing.**

Within the fields of SDSEU, the training program based on advanced university studies includes three disciplines relevant for training in scientific research of doctoral students, as follows: *Scientific research methodology*, *Ethics and academic integrity* and respectively, *Econometric and statistical methods used in scientific research* for accounting.

The in-depth study of these disciplines aims at the formation of abilities and skills in the field of statistical data processing, interpretation and presentation of the results obtained simultaneously with the strengthening of ethical behavior in the approach of scientific research. The curriculum of the fields from SDSEU is presented in [Annex 9](#).

Within the fields of SDSI, the training program based on advanced university studies includes five disciplines, namely, *Research Methodology*, three specialized disciplines proposed by the doctoral supervisor (master courses or individual study based on the bibliography indicated by the supervisor, which includes and recent articles, relevant to the subject of the doctoral thesis and *Ethics and academic integrity*). The curriculum of the fields from SDSI is presented in [Annex 9](#).

**B.2.1.2. At least one discipline is dedicated to Ethics and Intellectual Property in scientific research or there are well-defined topics on these subjects within a discipline taught in the doctoral program.**

The training program based on advanced university studies includes in the first semester of the first year Ethics and academic integrity, a discipline that ends with a colloquium. The theme of the course includes introductory notions on ethics and morals, research ethics in Romania, the correct writing of an academic paper, plagiarism and autoplagiarism, the use of computer programs to detect plagiarism, the code of ethics and professional ethics of UVT. The discipline sheet is presented in [Annex 9](#)

**B.2.1.3. The IOSUD has mechanisms to ensure that the academic training program based on advanced university studies addresses “the learning outcomes”, specifying the knowledge, skills, responsibility and autonomy that doctoral students should acquire after completing each discipline or through the research activities.**

A study program is presented in the form of a package of documents that includes: the general and specific objectives of the program; the curriculum with the weights of the subjects expressed through ECTS study credits and with the subjects ordered successively during the schooling; the files of the disciplines included in the curriculum, respectively the learning outcomes expressed in the form of the cognitive, technical or professional and affective-value competences that are achieved by a discipline; how to examine and evaluate each discipline, taking into account the planned results; the organization and contents of the final exam, as a summative exam that certifies the assimilation of cognitive and professional skills that correspond to the university qualification.

For the fields from SDSEU, the discipline sheets reflect the concerns of the staff and of the management structures at the level of the didactic Doctoral School to focus the educational approach on the learning results. The courses address theoretical and especially methodological aspects, but focus on their applicability in scientific papers written by PhD students. The subject sheets include, among others, the following sections: the objectives of the discipline (general and specific objectives of the discipline), the contents of courses and seminars, the methods and teaching aids used, a section aimed at corroborating the contents of the discipline with the expectations of epistemic representative employers in the field of the program and an evaluation section. The subject sheets explicitly provide the professional and transversal competencies (based on the grid of specific skills acquired) that doctoral students must acquire after completing each discipline. The content of the discipline sheet covers all the requirements mentioned by this indicator. The subject sheets are prepared according to a standardized form within the Quality Management System.

For the SDSI domains for each subject in the curriculum, doctoral students hold a colloquium in which the acquisition of skills is verified (knowledge of the fields, synthesis capacity, critical analysis, ability to evaluate results, etc. - the files of specific disciplines are presented in [Annex 9](#)). The curriculum also provides for three *Reports presenting the progress of the research* which ends with a colloquium before the steering committee. It is recommended to include in the reports the publications of doctoral students, which allows the guidance committee to analyze the evolution of the doctoral student regarding the way of formulating problems, formulating hypotheses, analysis capacity, handling the mathematical apparatus, writing and presentation.

### **B.3. The results of doctoral studies and procedures for their evaluation**

#### **B.3.1. Doctoral students capitalize on the research through presentations at scientific conferences, scientific publications, technological transfer, patents, products and service orders.**

**B.3.1.1. For the doctoral school there are in place mechanisms for valorization of the results of doctoral studies in accordance with the specificity of the particular domain (i.e. technological transfer, products, patents in the case of exact sciences; products and services for social sciences and humanities; festivals, contests, recitals, sports competitions; cultural-arts orders in the vocational domain; presentations at national and international conferences, publication of research results in national and international publications, engaging doctoral students in writing research-development projects etc.).**

Within each field of SDSI, in chapter 1.3 and at indicators B.3.1.1 and B.3.1.2 were highlighted mechanisms the results of doctoral studies for doctoral students who have obtained the title of doctor. The synthesis includes: publication of results in national and international publications - ISI journals Q1 (5), Q2 (5), Q3, Q4 (8), ISI proceedings (17), BDI indexed proceedings (31) • book chapters (1) • presentations at national and international conferences (46) • patents (11) • patent applications (14) • awards (35) • involvement of PhD students in the development of research and development projects (15 projects). These are highlighted in [Annex 18](#).

Within each field in SDSEU for History we notice 3 books published by international publishers (doctoral theses published), 17 books published by publishing houses in the country, 11 book chapters, one ISI article, two ISI proceedings and 32 BDI articles ([Annex 18](#)). For the Accounting field, we note 121 articles in BDI indexed journals, and 46 papers were presented at international conferences in the country or abroad ([Annex 18](#)). For the Management field, we note 5 single author books published in national publishing houses and 5 book chapters published in international publishing houses, 10 articles published in ISI listed journals (including those published in ISI proceedings), 236 articles in BDI indexed journals, 207 participations at international conferences and 130 articles published in the volumes of those conferences ([Annex 18](#)).

### **B.4. Quality of doctoral theses**

#### **B.4.1. Doctoral theses fulfil high quality standards**

**B.4.1.1. At the level of IOSUD, the percentage of theses non -validated, at the level of General Council of the National Council for Attestation of University Degrees, Diplomas and Certificates (CNADTCU), without the right of further amendments and re-organizing the process of public defending, is not exceeding 5% in the last 5 years.**

The sure invalidated thesis is in the field of history. It has the title Integration of state archives in the institutional system of contemporary Romania and was supported on 26.06.2019. The thesis is invalidated by OM 3439 / 04.03.2021. Compared to 160 theses defended in the last 5 years, the percentage is **0.6%**.

## C. QUALITY MANAGEMENT

### C.1. Existence and periodic implementation of the internal quality assurance system

#### C.1.1. There are an institutional framework and procedures in place and relevant internal quality assurance policies, applied for monitoring the internal quality assurance.

##### C.1.1.1. The IOSUD shall demonstrate the continuous development of the evaluation process and its internal quality assurance following a procedure developed and applied at the level of the doctoral school(s), the following assessed criteria being mandatory:

- a) the scientific work of Doctoral advisors;
- b) the infrastructure and logistics necessary to carry out the research activity;
- c) the procedures and subsequent rules based on which doctoral studies are organized;
- d) the academic and social services (including participation

IOSUD and the Doctoral Schools follow the policy of quality assurance of education implemented in the University of Wallachia. The objectives of IOSUD are in line with the objectives of the institution, namely, in the field of quality management system, continuing education / training, scientific research activities and in the field of national and international cooperation. Every year, IOSUD doctoral schools are audited and objectives are monitored. We mention that IOSUD has a Quality Commission ([Annex 24.9](#)) and a quality manager, prof. Mihai MEILA.

For the monitoring of the scientific activity of doctoral supervisors, point (a) of the indicator, IOSUD introduced the procedure PO 06.14 ([Annex 25](#)) which allows a quantification of the annual activity of doctoral supervisors. The procedure takes into account and scores only the results / activities recognized by CNATDCU (according to Order no. 6129 of December 20, 2016). By standardizing the minimum score required for habilitation corresponding to each field, the procedure allows a unitary evaluation of doctoral supervisors from different fields.

An evaluation questionnaire was conducted for social and academic support and counseling services, respectively for the infrastructure and logistics necessary to carry out the activity, the results being highlighted in [Annex 22.1](#) and [Annex 22.3](#) for doctoral students now in the doctoral program and for graduates.

##### C.1.1.2. Students' associations and, according to the case, representatives of students organize elections in the community of doctoral students, for positions in the CSUD, by universal vote, direct and secret, all doctoral students having the right of electing or being elected.

The elections are organized by the UVT Student League (LSUV). During the evaluation period, 3 election sessions took place:

- July 2017 - the elections were organized by the University Electoral Bureau, which at that time also included students; in [Annex 5.1](#) we find the Decision of the University Senate no. 27 O of July 31, 2017;
- April 2021 - the elections were organized by the representative student organization LSUV - Electoral Bureau for students; in [Annex 5.2 – 5.4](#) we find the minutes for the two rounds;
- July 2021 - the elections were organized by the representative student organization LSUV - Electoral Bureau for students; In [Annex 5.5](#) we find the corresponding minutes.

**C.1.1.3. Students' associations and, according to the case, representatives of students organize elections in the community of doctoral students at the level of each doctoral school, for positions in the councils of doctoral schools, by universal vote, direct and secret, all doctoral students having the right of electing or being elected.**

The elections are organized by the UVT Student League (LSUV). During the evaluation period, 2 election sessions took place:

- July 2017 - CSD for SDSEU and SDSI (the elections were organized by the University Electoral Bureau, which at that time also included students); in [Annex 5.1](#) we find the Decision of the University Senate no. 27 O of July 31, 2017;
- April 2021 - CSD for SDSEU and SDSI (elections were organized by the representative student organization LSUV - Electoral Bureau for students); in [Annex 5](#) we find PV for the two rounds;

**\*C.1.1.4. Following the internal evaluation, IOSUD and the doctoral schools' draft strategies and policies aiming to eliminate the identified deficiencies and to stimulate scientific and academic performance of IOSUD.**

The Regulation of Doctoral Schools provides the right of doctoral students to freely express their needs and level of satisfaction with the doctoral program in Art. 15.o) and the obligation of SDSEU / SDSI to take into account the feedback of doctoral students in Art. 13.13). To this end, a questionnaire was developed to highlight the degree of satisfaction with the advanced study program, the research program, the steering committee and the doctoral supervisor (the questionnaire and its results are presented in [Annex 22.2](#)). In 2021, an online questionnaire was implemented and completed, the results of which can be found in [Annex 22.3](#) for *electrical engineering* and [Annex 22.1](#) for *history*. The action plan can be found in [Annex 22.4](#) for SDSI.

**C.2. Transparency of information and accessibility of learning resources**

**C.2.1. Information of interest to doctoral students, future candidates and public interest information is available for electronic format consultation.**

**C.2.1.1. The IOSUD publishes on the website of the organizing institution, in compliance with the general regulations on data protection, information such as:**

- a) the IOSUD/Doctoral School regulation;
- b) the admission regulation;
- c) the doctoral studies contract;
- d) the study completion regulation including the procedure for the public presentation of the thesis;
- e) the content of the training study program, based on advanced academic studies;
- f) the academic and scientific profile, thematic areas/research themes of the Doctoral advisors within the school, as well as their institutional contact data;
- g) the list of doctoral students within the domain with necessary information (year of registration; Advisor);
- h) information on the standards for developing the doctoral thesis;
- i) information on the opportunities for doctoral students aiming to attend conferences, to publish articles, awarding scholarships etc.
- j) links to the doctoral theses' summaries to be publicly presented and the date, time, place where they will be presented; this information will be communicated at least twenty days before the presentation.

All information is generally available here: <https://www.scoaladoctorala.valahia.ro/>.

For each of the information requested above, we provide the following access links:

- IOSUD / doctoral school regulations ([link ROF programs](#), [link ROF IOSUD](#));
- admission methodology ([link methodology](#));
- doctoral studies contract ([link contract](#));
- the regulation for completing the studies, including the procedure for public defense of the thesis ([link](#));
- the content of training programs based on advanced university studies;
- the academic and scientific profile, the thematic areas / research topics of the doctoral supervisors in the school, as well as their institutional contact data ([leaders link](#));
- list of doctoral students in the school with basic information (year of enrollment, leader);
- information about the standards for the elaboration of the doctoral thesis;
- information on opportunities for doctoral students aimed at attending conferences, publishing articles, awarding scholarships, etc .;
- links to the abstracts of the doctoral theses to be defended publicly, as well as the date, time, location where they will be defended, at least 20 days before the defense. ([thesis support link](#))

### **C.2.2. The IOSUD/The Doctoral School provides doctoral students with access to the resources needed for conducting doctoral studies.**

#### **C.2.2.1. All doctoral students have free access to one platform providing academic databases relevant to the doctoral studies domain of their thesis.**

The indicator is met - SDSI doctoral students have access (ANELIS) to the following databases ([Annex 26](#)):

- PROQUEST Central
- ScienceDirect Freedom Collection (Elsevier)
- Scopus (Elsevier)
- Web of Science - Core Collection, InCites Journal Citation Reports, Derwent Innovations Index (Clarivate Analytics)

Access is available to all users within the institution, inside its headquarters, based on IP addresses. Also, on the university portal there is a detailed description of the facilities of free access to electronic resources relevant to the fields of organized doctoral studies.

<https://www.valahia.ro/ro/noutati/778-acces-gratuit-la-baze-de-date-ebSCO>

<https://www.valahia.ro/ro/noutati/820-invitatie>.

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

PhD students, through doctoral supervisors, have access to the similarity verification platform [www.sistemantiplagiat.ro](http://www.sistemantiplagiat.ro)

### **C.2.2.3. All doctoral students have access to scientific research laboratories or other facilities depending on the specific domain/domains within the Doctoral School, according to internal order procedures.**

All doctoral students of SDSEU - *history* have access to the research facilities of the Doctoral School and of the Research Center for the History of International Relations and Cultural Heritage "Grigore Gafencu" - <https://gafencu.hypotheses.org/>. All doctoral students are members of one of the two research laboratories of the center, the Laboratory for the History of International Relations (<https://gafencu.hypotheses.org/doctoral-students>) and the Laboratory for the Study of Cultural Heritage (<https://gafencu.hypotheses.org/doctoral-students-2>). The research facilities within the laboratories located in the Multidisciplinary Scientific and Technological Research Institute (Aleea Sinaia 13, Târgoviște, Romania - <https://gafencu.hypotheses.org/location>) are modern and fully accessible to our PhD students. In fact, the regulations governing the activity of doctoral students also give them full access to the research centers and laboratories of the university and these provisions are fully applied within the Doctoral School of Economics and Humanities.

SDSEU doctoral students - *accounting and management* have free access to ESF laboratories (out of hours - bachelor / master), to CCSCF and CCSMM research laboratories, as well as to all research facilities within the ICSTM structure, insofar as they have access to research resources relevant to the topics studied. Thus, in the SDSEU Regulation ([Annex 25](#)), at art. 15 para. (1) states: "*During the doctoral study program, the doctoral student has the right: [...] to benefit of logistics, documentation centers, libraries, UVT equipment, for his preparation and for the elaboration of the doctoral thesis*".

The doctoral students of SDSI - *materials engineering* have free access to the research laboratories of CC-NANOMECH, CC-SASM, to the FIMM laboratories (out of hours - license / master) and to the ICSTM facilities.

PhD students of SDSI - *electrical engineering* have free access to the research laboratories of CC-IEETI, ICSTM, FIEETI laboratories (out of hours - license / master) and CITSC facilities (according to the bilateral agreement [Annex 19.1a](#)).

PhD students of SDSI - *mechanical engineering* have free access to the research laboratories of the Institute of Multidisciplinary Scientific and Technological Research of the University of Wallachia in Târgoviște - ICSTM, to the laboratories of the Faculty of Materials Engineering and Mechanics of the University of Wallachia - TIMM (license / master) and at the facilities of the Research - Development Institute for Mechatronics and Measurement Technique - INCDMTM (according to the collaboration agreement [Annex 19.1b](#)).

## **C.3. Internationalization**

### **C.3.1. IOSUD/Doctoral school has a strategy in place and it is applied to enhance the internationalization of doctoral studies.**

**\*C.3.1.1. IOSUD, for every doctoral school, has concluded mobility agreements with universities abroad, with research institutes, with companies working in the field of study, aimed at the mobility of doctoral students and academic staff (e.g., ERASMUS agreements for the doctoral studies). At least 35% of the doctoral students have completed a training course abroad or other mobility forms such as attending international scientific conferences. IOSUD drafts and applies policies and measures aiming at increasing the number of doctoral students participating at mobility periods abroad, up to at least 20%, which is the target at the level of the European Higher Education Area.**

The internationalization activity is based on the principles defined within the second International Strategy of the “Valahia” University of Târgoviște 2021-2025 ([Annex 23.1](#)), as well as on related documents such as the International Marketing Strategy, Erasmus University Charter 2021-2027 ([Annex 23.2](#)). According to the Internationalization Strategy, UVT has started a project such as the European Universities consortium with universities from France, Portugal, Poland, Latvia, the Czech Republic and companies such as I.B.M. which aims, among its objectives, to increase to over 50% the number of students in all cycles of education who will participate in physical, blended and virtual mobility between partner institutions. The project is to be submitted in February 2022.

*History:* By reporting the number of 34 PhD students who defended their doctoral thesis between October 1, 2016 - June 30, 2021, the number of 10 students who participated in international mobility (often in several such trips) is 29.4% ([Annex 23.4](#)). Furthermore, there is an obvious concern for the internationalization of doctoral studies by supporting international mobility such as Erasmus, etc., providing the necessary financial resources through European projects (such as the Progressio project) for scientific mobility for research and conference participation, although this process is substantially limited by the COVID-19 pandemic. Among the current doctoral students participated in mobilizations abroad doctoral students Mihai Dobrițoiu (through Erasmus at La Sapienza University / Italy), Mihai Claudiu Năstase, Alexandru Mitru, Andreea Păun (Parnic), Florin Ionuț Lupu, Marian Leu, Adrian Pogăcian, Adrian Nicolae, Elena-Cristina Iarcă, Georgiana-Alexandra Diaconu, Ion Coconețu, Andreea Dahlquist, Carmen- Elena Bălțeanu, Maria Lăzăroi, Mihai Stan, Mihai Leoveanu, Irina Arpentii, Marinela Trandafir, Sergiu Suvac, Elena Cojocari, Adrian Corneliu Ghiță, Octav Negrea (22 PhD students in training -24% of current PhD students).

*Accounting:* For the financial cycle the University has concluded Erasmus partnership agreements, which provide for annual reciprocal mobility for four students in the third cycle (doctorate) in Business (Management), with the University of Paris Est Creteil, the University of Castilla La Mancha and the Academy Dimităr Țenov ([Annex 23.5](#)). Also, based on the partial review of the attached documents in order to defend the doctoral theses from the reporting period, there were 11 participations of doctoral students in conferences held outside national borders. The PhD students in the internship have registered numerous participations in international conferences. Some of the PhD students present but registered before 2016, have been integrated in international mobility projects through European funded projects.

*Management:* For the financial cycle the University has concluded Erasmus partnership agreements, which provide for annual reciprocal mobilities for four students in the third cycle (PhD) in Business (Management), with the University of Paris Est Creteil, University of Castilla La Mancha, Academy Dimitar Tenov (Bulgaria), National University of Ostroh Academy (Ukraine) and Polotsk University (Belarus) The University is also part of the European University Consortium project, to be submitted in February 2022. According to it, 50% of our students (including PhD students) will perform physical, online and mixed mobility within the consortium. ([Annex X](#)). Also, based on the partial review of the attached documents in order to defend the doctoral theses from the reporting period, there were 25 participations of doctoral students in conferences held (respectively, in 2020, initially scheduled to take place) outside national borders ([Annex X](#)), to which is added a doctorate developed in co-supervision (Georgescu I. Ruxandra) and an Erasmus mobility of six months, in 2016-2017 performed by Chiper (Neculau) Anca. Also, in the period 2016 - 2018, at the level of the Doctoral School, the mobility project “Evolutions, trends and factors influencing the RDI process in the context of globalization and increasing economic competitiveness” took place ([Annex 23.6](#)).

According to [Annex X](#), in 2015, a number of fifteen students from the field of PhD in Management performed international mobilities at various partner universities, within three projects carried out by SDSEU. The ratio is 42/88, ie 47.72%,

*Materials engineering:* 2 students participated in conferences abroad and 3 in visits / internships. Eliminating the overlaps, a total of 5 students out of 14 had mobility, respectively 35.71% and 4 students out of 14 completed training internships abroad, ie a percentage of 28.57%. The PhD supervisors of SDSI-IM have established good collaboration relations with universities and laboratories in Italy (Prof. Enrico Sassoni - Bologna University), Spain (Prof. María del Mar Barbero-Barrera, Universidad Politécnica de Madrid and Prof. Luz Stela Gomez Villalba, Materials Science and Engineering Researcher Heritage Conservation Group Institute of Economic Geology, Madrid), Prof. Emeritus Tebello Nyokong, Rhodes University, South Africa, Dr. Victor Kichanov, Frank Laboratory of Neutron Physics, Joint Institute for Nuclear Research, Dubna, Russia ([Annex 23.7](#)).

*Electrical engineering:* 16 doctoral students out of 42 (16 current doctoral students plus 26 graduates) carried out mobility abroad (conference participants, internships, visits). Thus, 10 PhD students participated in the conferences. Two doctoral students, I. Căciulă, A. Tudoroiu did a 4-month internship at ENSIEG, INP. Grenoble (2012), France, and 6 PhD students, E. Diaconu, M. Ghiță, O. Marin, A.C. Gurgu, D. Necula, F. Mirita, a transnational study visit, between September 17-21, 2012 at the University of Seville, Department of Electronics and Electromagnetism). Eliminating overlaps results in a total of 16 students who had mobility. Comparing to 42 (26 theses defended plus 16 doctoral students in progress) results a percentage of 38.1%. A plan of measures has been implemented to increase the number of doctoral students participating in training courses abroad, to at least 20% ([Annex 23.8](#)). The doctoral supervisors of SDSI-IE have established collaboration relations with prestigious universities in France (INP Grenoble, Gipsa Lab, Univ. Savoie, from Univ. Grenoble-Alpes - D. Colțuc, internships as guest professor / associate researcher CNRS) , Italy (Politecnico di Torino - prof. H. Andrei, ERASMUS) as well as with other universities (Univ. Jean Monnet, Saint Etienne, Univ. Franche-Comté, etc.).

*Mechanical engineering:* Five of the 12 doctoral students enrolled in the evaluated period, and 41% of them carried out mobility abroad for scientific interest.

### **C.3.1.2. IOSUD supports, including providing financial support, to the organization of doctoral studies in international co-tutelage or invitation of leading experts to deliver courses/lectures for doctoral students.**

During the evaluation period there were 7 theses defended in co-supervision:

- Popescu Elinor Danusia, scientific leader prof. Univ. Dr. habil. Silviu-Marian Miloiu - co-supervised by the Sorbonne Nouvelle University (2015-2018)
- Defta Dragoș, scientific leader prof. Univ. Dr. habil. Silviu-Marian Miloiu - co-supervised by the University of Stuttgart (2015-2019)
- Rose Marinela, scientific leader prof. Univ. Dr. habil. Sergiu Musteață - co-tutor Ion Creanga State Pedagogical University of Chisinau (2020-2023)
- Capel-Muscalu Viviana, scientific leader prof. Univ. Dr. habil. Sergiu Musteață - co-supervised by the State University of Moldova (2020-2023)
- Ghiță Adrian Corneliu, scientific leader prof. Univ. Dr. habil. Sergiu Musteață - co-supervised by the State University of Moldova (2020-2023)
- Georgescu Ruxandra, scientific leader prof. Univ. dr. Ion Stegăroiu - co-supervised by Université Paris 8 (2016-2019)
- Ciubotariu Dragoș Adrian, scientific leader prof. Univ. Dr. Dinu Colțuc - co-supervised by the University of Franche Compté (2012-2016)

In the area of activity of SDSI we highlight the scientific events organized in UVT within ICSTM-UVT:

- Prof. Eng., PhD José Machado, Mech., University of Minho, School of Engineering, Mechanical Engineering Department, PORTUGAL, “Mechatronic System for the Promotion of Physical Activity in People with Motor Limitations” September 6, 2018;
- PhD. John Mack - Rhodes University, Grahamstown, South Africa “The rational design of BODIPY dyes for biomedical and optical limiting applications”, October 6, 2017, <http://www.icstm.ro/content/Invited-Lecturer-PhD-John-Mack>
- PhD Eng. Ion Stiharu- Department of Mechanical and Industrial Engineering, Concordia University, Canada “MEMS Application to Life Science”, “A New Approach for the Non-Linear Analysis of the Deflection of Beams Using Lie Symmetry Groups” 07 September 2017

In the area of activity of SDSEU we highlight:

- the round table entitled Small Powers and Inequality in the International System, held under the auspices of the Romanian National Commission for UNESCO and the European Federation of Associations, Centers and Clubs for UNESCO and organized by the University of Wallachia in Targoviste, and Université «Sorbonne Nouvelle» - Paris 3, together with other partners (September 29, 2018) - <https://gafencu.hypotheses.org/petites-puissances-et-linegalite-dans-le-systeme-international>. Jean Marc Delaunay (Université Sorbonne Nouvelle - Paris 3), Alain Soubigou (Université Paris 1 Panthéon-Sorbonne) and Traian Sandu (Université Sorbonne Nouvelle - Paris 3) gave lectures, together with Romanian professors and researchers. In 2021 alone, more than 20 professors from European countries participated in international conferences organized by the university for its doctoral students and students in the field of history.
- The conference “Consular Network of Romania (1918-1947): organization, staff, regulations”, organized in partnership, was attended by Prof.univ.dr.habil. Traian Sandu, from the Sorbonne University Nouvelle Paris 3 (<https://gafencu.hypotheses.org/reteaua-consulara-a-romaniei-1918-1947-organizare-personal-regulante>).
- The symposium held in partnership entitled "Tudor Vladimirescu and his era (1821-2021)" was attended by 4 professors from abroad (<https://gafencu.hypotheses.org/bicentinar-tudor-vladimirescu-si-epoca-sa-1821-2021>).
- Conference “Rethinking multiculturalism, multilingualism and cultural diplomacy in Scandinavia and the Baltic Sea Region. The 12th International Conference on Baltic and Nordic studies ”was attended by 14 professors and researchers from abroad ([https://balticnordic.hypotheses.org/files/2021/05/2021-Conference-Program-Multi-Kulti\\_May-2021-2.pdf](https://balticnordic.hypotheses.org/files/2021/05/2021-Conference-Program-Multi-Kulti_May-2021-2.pdf)).
- The lecture series of the “Grigore Gafencu” Research Center included a series of individual lectures by foreign researchers and experts: “Bicentenary of the Greek Revolution (1821)” - given by the Greek academician Paschalis M. Kitromilides (<https://gafencu.hypotheses.org/bicentenary-of-the-greek-revolution-1821>), Democracy under threat in a world of geopolitical rivalry - supported by MEP Anssi Kullberg from the European Diplomacy Service (<https://gafencu.hypotheses.org/democracy-under-threat-in-a-world-of-geopolitical-rivalry>), „Quo vadis, Erdoğan?” - supported by Madrid professor Adrian Mac Liman - <https://gafencu.hypotheses.org/upcoming-events>.

**\*C.3.1.3. At least 10% of the doctoral theses of every doctoral schools of the IOSUD are drafted and/or submitted in an international foreign language or are organized in international co-tutelage.**

The 160 theses defended in the evaluated period are 133 for SDSEU and 27 for SDSI. Of these, 7 are written and / or presented in a language of international circulation or co-written. Of these, 5 are in the field of history, one in the field of management and one in the field of *electrical engineering* ([Annex 15](#)). The percentage is 4.51% for SDSEU and 3.70% for SDSI.

The percentage will reach 10% on 1.10.2023, being necessary for IOSUD through CSUD, CSD, doctoral supervisors and doctoral students to identify those theses that can be written and / or presented in a language of international circulation until that moment.

**C.3.1.4. The internationalization of activities carried out during the doctoral studies is supported by IOSUD through concrete measures (e.g., by participating in educational fairs to attract international doctoral students; by including international experts in guidance committees or doctoral committees etc.)**

Within the field of History, in the support committee of Dr. Costel Coroban participated Prof. Jón Viðar Sigurðsson from the University of Oslo, in the support committee of Dr. Elinor Danusia Popescu participated Prof.Dr. Jean Marc Delaunay (Université Sorbonne Nouvelle - Paris 3), Assoc. Prof. Dr. Alain Soubigou (Université Paris 1 Panthéon-Sorbonne), Prof.Dr. Friedrich Taubert (Université Bourgogne Franche-Comté) and Prof.Dr. Traian Sandu, co-coordinator (Université Sorbonne Nouvelle - Paris 3), in the doctoral committee of Valentin Negoii will participate in September professors Marius Turda (Oxford Brookes University), Vladimir Solonari (University of Central Florida) and Radu Ioanid (US Holocaust Memorial Museum). Dr. Dinu POȘTARENȚU from the Institute of History of MECC, Republic of Moldova is a member of one of the steering commissions.

Prof. univ. Dr. habil. Anatol Petrencu from the State University of Moldova is a co-supervised doctoral supervisor for two doctoral dissertations in his internship, while Assoc. Dr. Valentina Ursu from the State Pedagogical University "Ion Creanga" in Chisinau is a co-supervised doctoral coordinator for a doctoral thesis.

The internationalization strategy of UVT applied at the level of the doctoral field determined the enrollment of an international student (China) in the field of *Accounting*.

Six PhD students from other countries are enrolled in the *Management* field; the situation is presented in [Annex 14](#). It is worth mentioning the presence of prof. univ. dr. Ouidade SABRI (University of Paris 1) and associate professor dr. Thierry LEVY (University of Paris 8) in the commission for the thesis of doctoral student Georgescu I. Ruxandra (co-supervision with the University of Paris 8). Prof. Ion Stegăroiu also participated in several guiding committees held at the Doctoral School "Espace Européen Contemporain" - Université Paris III, Sorbonne Nouvelle, as well as at the Doctoral School "Energy, Climate Change and Sustainable Development" - Université of Tunis. Internationalization works in the other direction as well.

Within the field of *Materials Engineering* in 2021, an EU-Marie Curie project was submitted for the financing of doctoral students' internships for the completion of doctoral theses of foreign doctoral students, the University of Wallachia being responsible for one of the Working Groups in this project.

In the field of Electrical Engineering regarding the inclusion of international experts in the commissions for the defense of doctoral theses, we report the presence of **Prof. Rosario TOSCANO** from the *École Nationale d'Ingénieurs de Saint-Étienne* (ENISE), France, in the thesis committee of Mr. D.A. Ciubotariu.

Internationalization works in the other direction as well. Thus, Prof. D. Coltuc was a member of the commissions for doctoral theses "*Reversible watermarking scheme with watermark and signal robustness for audio*", author María Alejandra Menéndez Ortiz, National Institute of Astrophysics, Optics and Electronics, Puebla, Mexico, 2017, "*Print quality assessment by image processing and color prediction models*", author David Nébouy, Univ. Jean Monnet, Saint Etienne, France, 2015 and external rapporteur for the doctoral theses "*Capacity Analysis in Reversible Watermarking Schemes*", author Rushikesh Prakash Borse at Indian Institute of Technology, Bombay, 2016 and "*Reversible Watermarking based on Histogram Shifting and Error Expansion*", author Ayesha Siddiqa, Dept. of Computer and Inf. Sciences, Pakistan Inst. of Eng. and Applied Sciences, Islamabad, Pakistan, 2016.

Within the field of *Mechanical Engineering*, the PhD supervisor, Prof. GHEORGHE Gheorghe participated in educational fairs for attracting international doctoral students, as follows:

- The 12th edition of "International Forum Mechatronics" Bolzano, Italy, on 19th and 20th of September 2018 ([www.mechatronikforum.net](http://www.mechatronikforum.net))
- 1st European Mechatronics Alliance Kick-Off Meeting, 16-17 May 2018, Linz, Austria
- The 18th IFAC (International Federation of Automatic Control), TECIS 2018, September 13-15, Baku, Azerbaijan
- International Conference on Innovation, Engineering and Regional Entrepreneurship HELIX 2018, Guimarães, Portugal, June 27-29
- The 12th Portuguese Conference on Automatic Control - Guimarães, Portugal, September 14-16th, 2016
- International experts with experience in the thesis (Ion Stiharu- Department of Mechanical and Industrial Engineering, Concordia University, Canada) were included in the guidance commissions of doctoral students.

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## **C.4. System for assurance of ethical and academic integrity**

### **C.4.1. IOSUD/Doctoral school has a functional and efficient system in place for prevention and assuring ethical and academic integrity norms.**

#### **C.4.1.1. IOSUD, applies the current provisions regulating ethics, deontology/academic integrity, respectively to academic freedom and has developed:**

- policies based on prevention regarding possible violations of the Code of ethics and academic integrity, demonstrated by public positionings, studies, analyses or measures taken;
- practices and mechanisms for preventing fraud, from an institutional perspective as well as from the perspective of the doctoral students;
- practices for preventing possible fraud in academic activity, research or any other activity, including active measures for preventing and avoiding plagiarism of any kind, as well as promoting ethical and integrity/deontology principles or observing intellectual property norms, authors' rights and other related rights, among all members of the academic community;
- administrative instruments which allow applying effective and eliminatory sanctions;
- mechanisms and meas

#### **IOSUD monitorize and permanently evaluates these practices and can prove they are applied to all activities and engagement of students in all these processes, and the results of the monitoring is made public yearly or whenever it becomes necessary**

In accordance with the regulations of doctoral schools (SDSI / SDSEU art. 13.10), the doctoral school and the doctoral supervisor have the obligation to inform the doctoral student about the scientific, professional and university ethics, and to verify its observance, including:

- a) observance of the deontological provisions during the accomplishment of the doctoral research;
- b) the observance of the deontological provisions in the drafting of the doctoral thesis.

The introduction of the *Ethics and Academic Integrity* course for IOSUD PhD students may lead to prevention regarding the possible violation of the code of ethics and academic integrity. The reports and decisions of the Ethics Commission by their public nature can prevent fraud in various forms. At the same time, the similarity analysis of the doctoral thesis is a practice that prevents fraud.

#### **C.4.1.2. All intimations regarding suspicion of plagiarism related to doctoral theses have been analyzed and resolved by the IOSUD within the time interval legally established for expressing in writing its position regarding the intimation received.**

During the evaluation period, there were 3 cases regarding the suspicions of plagiarism related to some doctoral theses for which in [Annex 20](#) are found - The analysis reports, respectively the Decisions of the Ethics Commission. The documents are public, the links being available in the above-mentioned annex.

The complaint 2425 / 20.04.2016 referred to similarities between a research report and the doctoral thesis. The decision was: "*the doctoral thesis and the summary of the doctoral thesis related to it reflect the personal contribution of the author*". There was a recommendation for SDSI "*to communicate with doctoral students and doctoral supervisors in order to pay more attention to the submission of abstracts related to the defense of doctoral theses, even if these documents are no longer sent to the ministry.*" The decision of the Ethics commission was for *not confirming the suspicion of deviation from good conduct in the research - development activity.*

The complaint 15365 / 28.02.2018 referred to a case of plagiarism from a paper submitted in 2009 in UVT. The decision was: "*the responsibility for plagiarism cases proven in the thesis rests with the author of the doctoral thesis*". *the commission proposes the intervention in the text and its rewriting according to the academic norms (correction of the doctoral thesis according to the rules of good academic conduct - reformulation of the Ethics Commission)*". The decision of the Ethics Commission was for maintaining the title of doctor.

The complaint 18151 / 09.10.2020 referred to multiple suspicions of plagiarism. The decision was: "*the responsibility for the cases that indicate suspicions of processing in inconsistency with the academic norms, in the case of the doctoral thesis, rests with its author.... the commission proposes the intervention in the text and its rewriting according to the academic norms (correction of the doctoral thesis according to the rules of good academic conduct - reformulation of the Ethics Commission)*". The CNATDCU decision was for the maintenance of the doctoral title.

#### **C.4.1.3. Annual Reports of the Ethics commission of the IOSUD contain information on the stage of solving each case of intimation or own - initiative intimation regarding violation of norms or ethical aspects relevant for university doctoral studies. description of the facts, the findings from the assessed institution's documents and the evaluation visit itself.**

The reports of the Ethics Commission are prepared annually. As only three of them refer to the IOSUD activity in the assessed period, only the reports for 2016, 2018 and 2020 were included in [Annex 20](#). The documents are public, the links being available in the above-mentioned annex.

In these reports we find the communication with IOSUD - CSUD, Doctoral Schools, or other involved parties (eg ICSTM) on the specified topics. In the 2016 report we find 21 positions that refer to the actions taken for notification 2425 / 20.04.2016. In the 2018 report we find various points regarding the notification 15365 / 28.02.2018. In the 2020 report we find various points regarding the notification 18151 / 09.10.2020.

#### **C.4.1.4. The measures taken by IOSUD after the final decision of CNADTCU to withdraw the title of "doctor" following accusations of plagiarism have addressed all the aspects mentioned in CNADTCU's decision and in the current legislation.**

During the evaluated period there are no doctoral theses invalidated due to plagiarism. Within the university there is and operates a software, which verifies all doctoral theses, before approving their public support.

#### **C.4.1.5. The measures aiming to prevent academic fraud in the doctoral studies, taken by IOSUD, could be:**

- a) Suspension of the right to advise newly enrolled doctoral students, for a period of 3 years, in the case of doctoral advisors having coordinated a doctoral thesis with a definitive decision of withdrawal of the "doctor" title for plagiarism;
- b) Exclusion from the IOSUD of the doctoral advisor having coordinated at least two doctoral theses with definitive decisions of withdrawal of the "doctor" title for plagiarism;
- c) Suspension of the right to organize the admission process of new doctoral students in the Doctoral studies domain, for a period of 2 years, if in the respective domain a doctoral thesis has

The regulations of the doctoral schools (reg. SDSI / SDSEU art. 7.2.b) provide for the exclusion of doctoral supervisors as a result of the violation of the Code of Ethics and Deontology of UVT in case of possible academic frauds, violations of university ethics or deviations from good conduct in scientific research, including plagiarism. The doctoral student and / or the doctoral supervisor are responsible in accordance with the law (SDSI / SDSEU reg. Art. 10.12).

**\*C.4.1.6. The scientific reviewers, members in the commissions for public defense of two of more doctoral theses with definitive decisions of withdrawal of the “doctor” title for plagiarism, have not been nominated in other commissions for public defense of doctoral theses for a period of at least 3 years.**

During the evaluated period there are no doctoral theses invalidated due to plagiarism.

**C.4.1.7. IOSUD has a database open to the public containing all the doctoral theses defended in the institution beginning at least in 2016 in a format including: the domain, author, doctoral advisor, title of the thesis and the thesis in electronic format (if there is an agreement of the author).**

There is a database that can be accessed through the link: <https://tezadoctorat.valahia.ro/>. For public support, the announcements and legal information regarding this process can be found at <https://www.scoaladoctorala.valahia.ro/sustineri-teze/>. IOSUD informs the doctoral student that the thesis is a public document.

### 3. STRATEGIES AND PROCEDURES IMPLEMENTED AT THE IOSUD LEVEL

A fundamental objective of IOSUD and doctoral schools is the elaboration of doctoral theses of very good scientific level. In order to achieve this goal, IOSUD came to the aid of the guidance commissions by developing *M-21, Methodology for the evaluation of doctoral theses by the guidance commission*. The methodology is in accordance with MEN ORDER no. 5,229 of August 17, 2020, published in the OFFICIAL GAZETTE no. 783 of August 27, 2020.

In fact, IOSUD and doctoral schools have in mind the continuous monitoring of legislation and the development of new methodologies / procedures whenever necessary, as well as the revision of existing ones. In this sense, we mention *PO 07.43 - Completion of doctoral studies using alternative methods*, *PO 07.44 - Organizing and conducting online the process of obtaining the certificate of qualification*, *M 20 - Methodology for resolving complaints regarding non-compliance with quality standards or professional ethics in doctoral theses*, etc.

Among the measures that will be considered to improve the doctoral activity we find: holding regular meetings of the doctoral student with the steering committee, one of the meetings being at the beginning of each calendar year, among the topics addressed finding the necessary publication plan, infrastructure and logistics, participation in scientific events • initiation and support of regular events (4 / year) such as Colloquium, in online or classic format, in which to make presentations from national or international personalities / doctoral field • support from own sources of at least one trip to a conference abroad (*conference fee payment + travel expenses*), during the doctoral studies for each budget student and the obligation to integrate this trip in the student's work plan • support from the fees collected at an international conference / year (10% of the fee of studies), during the doctoral studies for each fee-paying student, respectively the support from sponsorships / directing of the research projects of the travel expenses for at least one international conference organized abroad for each fee-paying student during the doctoral studies period; the coordinator, CSD of the doctoral school in which the student works and the student will identify these sources of funding.

### 4. OTHER ADDITIONAL INFORMATION RELEVANT TO THE IOSUD

In the field of continuing education / training, IOSUD and SDSI aim to open new doctoral fields and consolidate existing ones. In order to consolidate the doctoral schools, *the action of identification, support and counseling of the teachers who meet the habilitation conditions is provided*. Thus, in the field of *mechanical engineering*, it was possible to co-opt in the UVT team in 2021 two colleagues: Assoc. Prof. Dr. Eng. Ivona Camelia PETRE, holder at UVT, who received the certificate of authorization through O.M. no. 4179 / 05.07.2021, respectively CSI dr. Eng. Cristinel Ioan ILIE, holder at ICPE-CA, who received the habilitation certificate through O.M. no. 4180 / 05.07.2021. In the field of *electrical engineering* at this moment there are three advanced qualifications, respectively prof.dr.ing. Mihai-Florin STAN, conf.dr.ing. Elena VÎRJOGHE and Lecturer dr. eng. Diana ENESCU. Mr. STAN is very close to meeting the minimum standards and in an advanced stage of writing the habilitation thesis entitled *Electrotechnical components compatible with sustainable development*. Ms. ENESCU has a sustained research activity, meets the minimum standards and is in the process of writing her habilitation thesis. Ms. VÎRJOGHE is very close to meeting the minimum standards. In the field of History, there is an habilitation thesis in the process of defending Mr. Cezar STANCIU. Within the teaching staff of the Faculty of Economics, which is the basis for selecting the members of the steering committees, we identify for the field of *Accounting* four lecturers who can start or are preparing the process for obtaining the qualification certificate: conf.dr. Marius COMAN, conf.dr. Valentin RADU, conf.dr. Gabriel CUCUI and conf.dr. Florin RADU. For the *Management* field, there are two teachers who will start the habilitation process in 2021-2022, namely Assoc. Gabriel CROITORU respectively conf.dr. Mircea DUICĂ.

Hoping for the positive evolution of the ARACIS evaluation, the intention is to open new doctoral fields in 2023: *Electronics, Telecommunications and Information Technologies* (there is 1 leader in the field in another university and 2 who will defend the habilitation thesis in 2022; all are holders of UVT) respectively *Systems Engineering* (there are 3 doctoral supervisors holders of UVT active in other university centers).

## 5. CONCLUSIONS

Looking at the 36 ARACIS indicators for the IOSUD evaluation, we appreciate that 34 are fully met and 2 are partially met.

Indicator \* A.3.1.1. The share of doctoral supervisors who simultaneously coordinate more than 8 doctoral students, but not more than 12, during their doctoral studies, does not exceed 20%. *Now the percentage is 37.14% and on October 1, 2023 it will reach 20%.*

Indicator \* C.3.1.3. At least 10% of the doctoral theses within each doctoral school within IOSUD are written and / or presented in an international language or are co-supervised. *Now the percentage is 4.51% for SDSEU and 3.70% for SDSI. The percentage will reach 10% on October 1, 2023.*

## 6. STRENGTHS, VULNERABILITIES, OPPORTUNITIES, THREATS

We will try to summarize the points of view expressed in each domain report, emphasizing the general ones, as common as possible to the six domains.

### STRENGTHS

- *Competence of doctoral supervisors* through scientific production, national and international recognition, Hirsch factor (in certain situations), presence in international commissions (European Commission - Directorate-General for Health and Food Safety, Scientific Committee on Health, Environment and Emerging Risks - SCHEER) national commissions (ARACIS, CNATDCU), the quality of: member of editorial committees of specialized magazines, chairman for international conferences, evaluator of projects in national or international competitions, director / project manager, author of patents, etc .;
- *The material base* especially for the engineering area, through the existence of ICSTM, impact teaching laboratories, through the existence of research centers, through good collaboration with national research institutes, etc .;
- *Functional and perfectible Quality Management System* certified ISO 9001: 2015

### WEAKNESSES

- *Low number of ongoing research projects involving PhD supervisors and students* - the existing ones mainly cover *materials engineering, electrical engineering and the history* area;
- *Reduced financial allocation for doctoral students' training expenses* - the fulfillment of the scientific criteria specific to a doctoral thesis was achieved either by UVT funding when the requests existed or by research or training projects that UVT carried out; a policy of allocating financial resources for this type of expenditure is in progress so that we consider that for the year 2021 - 2022 the situation has a solution;
- *International projects in modest numbers* - an H2020 project coordinated by a UVT doctoral graduate in which two other UVT doctoral graduates are members;
- *Declining scientific output for several PhD supervisors* - in some cases for each field within IOSUD;
- *Reduced internationalization* - are areas where internationalization is evident, such as history but also areas where a recovery strategy for the future is absolutely necessary.

## THREATS

- *The advanced age of some doctoral supervisors* - manifests itself in all fields;
- *Number of places financed from the reduced state budget* - less than 15 places each year for UVT, which will limit the emergence of new doctoral fields or system entries from doctoral supervisors;
- *Decreasing the attractiveness of doctoral studies* - especially in engineering;
- *The rhythmicity of research competitions*  $\neg$  for a long time this was quite evident by non-rhythmicity, but it starts to adjust, at least in relation to UEFISCDI during this period.

## OPPORTUNITIES

- *Meeting the qualification standards for young tenured teachers* - in opposition to the first point of threats; as can be seen in the field reports there are two entries in the system (mechanical engineering) and a dissertation of habilitation thesis (history) right during the drafting of this report and at least 8 teachers (3 electrical engineering, 4 accounting , 2 management) will meet the current standards in the academic year 2021 - 2022;
- *Public-private partnerships* - which will allow research funding and even the payment of tuition fees for doctoral students, especially in the fields of engineering, there are, for now, partnerships (Annex X) with Renault, Arctic, Schneider which include both the research area and and doctorate;
- *Increasing national / international visibility - of doctoral supervisors;*
- *ICSTM - research pole* - the activity of the researchers from the institute is starting to manifest itself so strongly that it is possible for them to succeed in attracting research contracts and meet the habilitation standards, on the one hand, and on the other hand the centers and laboratories Research in the institute seems to be developing progressively.
- *The emergence of new doctoral fields - Electronics, Telecommunications and Information Technologies and Systems Engineering.*

## 7. ANNEXES

Annex 1	Establishment of IOSUD HS 105D from 9.03.2012
Annex 2	Establishment of doctoral fields
Annex 3	CSUD director competition
Annex 4	Elections and PV CSUD and CSD meetings
Annex 5	Student elections in CSUD and CSD
Annex 6	CEAC IOSUD component
Annex 7	Strategic plan 2020-2024
Annex 8	SDSI and SDSEU functions
Annex 9	Curricula and discipline sheets
Annex 10	Educational spaces
Annex 11	PhD supervisors
Annex 12	Members of the steering committee
Annex 13	Doctors confirmed until May 2021
Annex 14	Foreign doctoral students
Annex 15	Co-supervised doctoral theses
Annex 16	International personalities - lectures
Annex 17	Research centers. Laboratories. Equipment
Annex 18	Scientific achievements
Annex 19	Partnerships
Annex 20	Ethics Commission
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Annex 26	Software