



**ROMANIAN AGENCY FOR QUALITY ASSURANCE IN HIGHER EDUCATION**

*Full member of the European Association for Quality Assurance in Higher  
Education - **ENQA** Listed in the European Quality Assurance Register for Higher  
Education - **EQAR***

---

**Annex No. 3**

**External Evaluation Report  
Institution Organizing Doctoral Study Programs (IOSUD)  
TECHNICAL UNIVERSITY OF CIVIL ENGINEERING OF  
BUCHAREST**

Razvan Ghinea, PhD  
Dpt. Optics  
Universidad de Granada, España

31 of July 2021



## I. Introduction<sup>1</sup>

This report summarizes my impressions as ARACIS International Expert Evaluator of IOSUD of TECHNICAL UNIVERSITY OF CIVIL ENGINEERING OF BUCHAREST (UTCB). The evaluation of IOSUD of UTCB was carried out by ARACIS in view of maintaining accreditation, procedure of quality assurance aimed to certify fulfillment of operating standards by the institutions organizing university doctoral studies, based on the provisions of art. 4 para. (2) of the Government Emergency Ordinance no. 75/2005 on Quality Assurance of Education, approved with amendments by the Law No. 87/2006, with subsequent amendments and additions.

The evaluation process was performed by the Romanian Agency for Quality Assurance in Higher Education (ARACIS), who recruited the following Experts Committee, in charge of Evaluation of IOSUD at TECHNICAL UNIVERSITY OF CIVIL ENGINEERING OF BUCHAREST:

**Director:**

Prof. Dr. IANOȘ Ioan  
University of Bucharest

**Coordinator:**

Prof. Dr. Petrescu Marius Gabriel  
Petrol-Gaze University of Ploiesti

**International expert:**

Prof.dr. Razvan Ionut Ghinea  
University of Granada, Spain

**PhD student:**

Duma Irina  
Tehcnical University Cluj-Napoca

The evaluation period extended from 12/07/2021 to 16/07/2021, and it was developed in a hybrid mode, meaning that the evaluation benefited from both online meetings and on-site visits.

After my appointment as an International Expert Evaluator, I was informed by the Director (Prof Dr. Prof. Dr. IANOȘ Ioan, University of Bucharest), the Coordinator (Prof. Dr. Prof. Dr. Petrescu Marius Gabriel, Petrol-Gaze University of Ploiesti) as well as the Technical Assistant (Marilena Dobre) of the evaluation team, on important aspects of the evaluation process, such as:

- Working methodology and the structure of the evaluation panels, for IOSUD and doctoral study domains, including contact data;
- All important working documents, such as The Guidelines for Periodical External Evaluation of the Institution Organising Doctoral Study Programs (IOSUD), respectively of the Doctoral study domains; The Doctoral Studies Code of June 29th, 2011 and the Order no. 3651/12.04.2021 for the approval of the Methodology on conducting the evaluation of university doctoral studies and of the systems of criteria, standards and performance indicators used in the evaluation; General presentation of the HE and QA systems in Romania.
- Detailed on-line meetings and visit schedule;

---

<sup>1</sup> Each time when applicable the information shall be presented gender-wise.



- Credentials and how to access the Internal evaluation reports and their annexes uploaded by the evaluated institution;

Additionally, an on-line meeting of the Director, Coordinator, Technical Assistants and all panel members, for discussing main methodological aspects related to the evaluation of both IOSUD and doctoral studies domains, took place on 2<sup>nd</sup> of July of 2021.

## **Background**

The Technical University of Civil Engineering Bucharest is a Doctorate Awarding Institution (IOSUD) comprising a Doctoral School that can organize doctoral studies in the fundamental field of "Engineering Sciences". The mission of IOSUD-UTCB is to carry out and develop the activity of doctoral education and, implicitly, in-depth scientific research in its fields of competence, for the benefit and progress of society.

Scientific research, technological development and innovation are a key component of UTCB's higher education processes. Within the UTCB there is only one Doctoral School (DS) organizing PhD studies currently within four Doctoral Domains (DD), although only two of them (Civil Engineering and Building Services; Mechanical Engineering) are proposed for re-accreditation. According to the documents provided by the evaluated institution, for the two DD, a total of 42 PhD Advisors are affiliated to the DS and a total of 315 doctoral students are enrolled at different stages of the period of preparation of the doctoral thesis.

The percentage of PhD Students/PhD Advisor averages 7.5, which is a rather high value. This issue becomes even more relevant if we take into account that there is a clear trend of decreasing number of PhD Advisors in the last 5 years (Evaluated period), mostly due to aging of available advisors. During the period under review (2016 –2020) a total of 94 PhD theses were presented.

PhD degree is composed of the "Advanced University Training Program" (PPUA) with a duration of one semester and the "Scientific Research Program (PCS)", with a duration of five semesters, completed with the support of the doctoral thesis. The advanced university training program is carried out in UTCB on the basis of an educational plan developed by the CSD, approved by the CSUD and finally approved by the Senate. It comprises the Ethics and Academic Integrity discipline and three mandatory disciplines (DO1 –complementary training disciplines, DO2 –general technical training disciplines and DO3 –specialized technical training disciplines), which provide all UTCB PhD students with a unified vision in addressing scientific research specific to engineering sciences and management skills of scientific research projects, respectively

UTCB has a total number of 18 Research Centers and 39 accredited or certified research laboratories. All doctoral students from IOSUD-UTCB are assigned to a laboratory or research center within the department where the doctoral supervisor works. They have access to the scientific research laboratories or other facilities of UTCB, according to the internal regulations of the laboratories or research centers. Also, all doctoral students have access to the international databases specific to the activity field on any UTCB computer, provided through the ANELIS Plus program.



## II. Methods used

### *Self Assessment Report*

The institution has taken the evaluation process very seriously and carefully prepared a Self Assessment Report of the Doctorate Awarding Institution (IOSUD). This document was available as a 129 pages .pdf document in the ARACIS cloud, and I was able to access it easily, on-time and as often as necessary. To support information included in the Self Assessment Report, the evaluated institution also included a total of 123 Annexes that were later completed with other several additional documents, as requested by the evaluation panel. All these documents were sent by e-mail, uploaded to the ARACIS cloud and other upload services and were available for review by the evaluation panel.

### *Additional Information available on-line*

To complete this evaluation report, documents, data and information available on the IOSUD/Doctoral School(s) website, in electronic format was also frequently consulted:

- <https://sd.utcb.ro/>

Similarly, webpages corresponding to research facilities mentioned in the Self Assessment Report were consulted in order to verify the provided information:

- <http://ccers.utcb.ro>
- <http://www.ccias.utcb.ro>
- <http://ccda.utcb.ro>
- <http://ccvademc.utcb.ro/>
- <http://cfdp.utcb.ro/drmpt/carem.html>
- <http://cfdp.utcb.ro/drmpt/ccdg.html>
- [www.cambi.ro](http://www.cambi.ro)
- [http://instal.utcb.ro/tet/ro/index\\_ro.html](http://instal.utcb.ro/tet/ro/index_ro.html)
- [www.geodezie.utcb.ro](http://www.geodezie.utcb.ro)
- <http://ccmgiids.utcb.ro/>
- <http://dlsc.utcb.ro/tsci/>

### *Meeting/discussions with doctoral students in the IOSUD*

The meeting/discussions with doctoral students in the IOSUD was on-line and took place on 13/7/2021. At the meeting participated approximately 20 students belonging to different years (stages) of the PhD program. As expected, students were commonly positive and stated that PhD Supervisor were at all time supportive and accessible, that they have their own allocated space and easy access to research resources. Students highly appreciated the training program (PPUA), and they were satisfied with the contents of the available courses.

Another important discussed topic was how the Guidance commission is selected, and all responses pointed out that, generally, members of this commission are appointed as per agreement with the PhD Supervisor. The involvement of PhD Students in teaching activities within the University is not a common practice, and only few of them benefit of it. However, this could not be an option for all of them, as some



have contractual agreements with other entities or companies, outside the University. Lastly, it was truly concerning that students were largely unaware of the existence of a student satisfaction questionnaire.

#### *Meeting/Discussions with the graduates of the IOSUD*

Meeting/Discussions with the graduates of the IOSUD was on-line and took place on 13/7/2021. At the meeting participated approximately 20 former students from IOSUD-UTCB. Overall, they all seem satisfied with the quality of their development throughout the PhD, and they easily found a job. However, it has to be mentioned that majority of participants were working in academia and still had very close links with the institution and were not sufficiently detached to provide a fully objective view. During the meeting, several recommendations related to improvement of available software and availability of a super-computing facility with remote access for large scale simulations were consistently addressed by the participants. Graduates also suggested including in the PPUA program project management and basic computer programming. It seems that available financial resources for a PhD student largely varied significantly if the PhD Advisor had or had not an ongoing research grant. Also, further digitalization of the administrative process was encouraged.

#### *Meeting/Discussions with employers of the graduates of the IOSUD*

The meeting/Discussions with employers of the graduates of the IOSUD was on-line and took place on 14/7/2021. At the meeting participated 15 employers of graduate students from IOSUD-UTCB. Overall, they were all satisfied with the level of training of the graduates as well as their considerably high level of technical, practical and theoretical knowledge. They all agreed that both employers and doctoral school can benefit from constant cooperation that should start as soon as possible during PhD development. It was also underlined the importance of belonging to a multi-cultural team during doctoral studies, in order to ease the integration in a multinational company.

It seems that there is a long tradition of collaboration between the SD and certain companies, a collaboration that could be exploited more intensively in the future through joint PhD Theses, research/travel grants or private-funded research labs.

#### *Meeting/Discussions with the school officials of the IOSUD*

Meeting/Discussions with the school officials of the IOSUD was on-line and took place on 12/7/2021. At the meeting participated the Director of IOSUD Prof. Loretta Batali, the Director of SD Prof. Ilinca Nastase and several members of the IOSUD and SD Council. During the meeting, participants were informed on the results of the review of the self-assessment report and several complementary documents were requested. All requested documents were uploaded by the evaluated institution within few days from request.

It was discussed the number of PhD Students within IOSUD, Thesis defenses in the evaluated period, origins of external PhD Candidates as well as the dropout rate. One of the concerns expressed by the evaluation team was that there is a decreasing trend of affiliated PhD Supervisors. It was explained that the main reason is aging of staff and the difficulties that younger professors have to achieve habilitation. It was pointed out that there is a strategy at IOSUD level to achieve 2 hab./year in the future, in order to correct this trend. Another issue discussed was the Mechanical Engineering domain, which



currently does not fulfill requirements for accreditation. Also, it was suggested to include a student questionnaire which evaluates research infrastructure, financial support, etc.

All discussed items were properly answered by the participants.

#### *Meeting/Discussions with the doctoral advisors affiliated to the IOSUD*

The meeting/discussions with the doctoral advisors affiliated to the IOSUD was on-line and took place on 12/7/2021. At the meeting participated a total of 17 PhD Advisors as well as the Director of IOSUD Prof. Loretta Batali and the Director of SD Prof. Ilinca Nastase. It was discussed the specific research field of the participants, the number of PhD students that they supervise currently, their actual position within the SDs and their strategy to attract possible PhD candidates. The evaluation panel addressed questions regarding the average time of development of a PhD Thesis (answered as typically 4-5 years) and the average number of publications of a PhD Student (answered as typically 4-5, since there is a minimum requirement of 3). It was also highlighted that students benefit from a yearly PhD Students Conference, where they can present part of their research results. During the meeting, the PhD Advisors identified as main drawbacks the lack of proper financing, mainly due to the difficulty to access research grants.

All questions were adequately answered and it seems that the IOSUD works under the guidelines of a first-class institution, with considerable research potential as well as considerable research output. PhD supervisors are supportive with their students and this is clearly reflected on the quality and quantity of the research output of the evaluated institution.

#### *Meeting/discussions with the representatives of the various structures of the IOSUD/Doctoral School(s)*

The Meeting/discussions with the representatives of the various structures of the IOSUD/Doctoral School(s) were on-line and took place on 12/7/2021 (Representatives of UTCB, IOSUD and SD management), 13/7/2021 (Ethics Commission) and 13/7/2021 (Quality Assurance Commission - CEAC). All were joint meetings for IOSUD and different DD panel evaluators.

General aspects of IOSUD organization within UTCB, funding sources, achievements of the last years and projects for the future were discussed. The president of the Ethics Committee (EC) explained the mission and purpose of the ethics committee and its composition. He also briefly resumed its activity. It was pointed out that no complaints were presented during the evaluated period. According to the current commission regulation, EC only accepts written and signed complaints. Anonymous complaints are not accepted. One of the issues raised by the evaluation team was the importance of including members external to the University in the Ethics Committee.

The President of the Quality Assurance Commission explained its mission and purpose as well as its composition. CEAC started working in 2021 and it was pretty clear that, as newly established, its tasks and responsibilities and coordination with the Quality Management Department are not yet clearly defined. The evaluated institution should make considerable progress in this area. The evaluation team also requested additional information on how student satisfaction questionnaires are presented and how their results are further considered and insisted on the importance of these questionnaires.



## *The Evaluation Visit*

The evaluation visit took place on 15/07/2021, but this evaluator did not participated.

### **III. Analysis of ARACIS's performance indicators**

#### **Domain A. INSTITUTIONAL CAPACITY**

*\*general description of domain analysis.*

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

*\*general description of the criterion analysis.*

*Standard 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.*

*\*general description of the standard analysis.*

**Performance Indicator A.1.1.1.** *The existence of specific regulations and their application at the level of the Doctoral School of the respective university doctoral study domain:*

- (a) the internal regulations of the Doctoral School;*
- (b) the Methodology for conducting elections for the position of director of the Council of doctoral school (CSD), as well as elections by the students of their representative in 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 (Council of the doctoral school), giving as well proof of the regularity of meetings;*
- f) the contract for doctoral studies;*
- g) internal procedures for the analysis and approval of proposals regarding the training for doctoral study programs based on advanced academic studies.*

The institutional regulation of the organization and conduct of university doctoral studies in IOSUD-UTCB is prepared by the CSUD, approved by the Council of Administration and finally approved by the UTCB Senate. Regulations are constantly updated at both IOSUD and DS levels in accordance with the current legislative orders and laws.

Evaluated institution presented evidence of the methodology for conducting elections for the position of director of the Council of doctoral school (CSD), as well as elections by the students of their representative in CSD and the evidence of their conduct. Also, the methodologies for organizing and conducting doctoral studies (for the admission of doctoral students, for the completion of doctoral studies) were submitted.





Similarly, it was proven the existence of mechanisms for recognizing the status of a Doctoral advisor and the equivalence of the doctoral degree obtained abroad; the functional management structures (Council of the doctoral school), with proof of the regularity of meetings and the contract for doctoral studies. Finally, the internal procedures for the analysis and approval of proposals regarding the training for doctoral study programs based on advanced academic studies were also submitted.

It is considered that the evaluated institution provided all required specific regulations as well as proof of their application at the level of IOSUD and SD. When needed, additional documents were provided. Based on the analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself, this performance indicator is considered to be fulfilled

**The indicator is fulfilled.**

***Performance Indicator 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 evaluated institution submitted for review regulation of IOSUD, and included 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. Based on the analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself, this performance indicator is considered to be fulfilled.

**The indicator is fulfilled.**

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

*\*general description of the standard analysis.*

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

The evaluated institution benefits from a computerized PhD Student management program (IT system) that was presented in printed documents. It seems to be an adequate program that allows continuous and efficient monitoring of PhD Students.

*Recommendations:*

- It is recommended to complete the student management informatic (IT) system in order to extend its capabilities and to include an electronic signature system, this way achieving almost complete digitalization of the bureaucratic flow within IOSUD.

**The indicator is fulfilled.**





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

The evaluated institution proved the use of system of verifying the originality of theses and scientific works developed by PhD students through the electronic comparison of documents offered by sistemantiplagiat.ro. The verification has a preventive role, to report possible irregularities and to inform the doctoral student and the doctoral advisor of those irregularities in order to rectify by correctly signalling the quotations from other scientific papers and in this way avoiding the suspicion of plagiarism

*Recommendations:*

- It is recommended to use a state of the art plagiarism check software (such as Turnitin) in order to benefit from the use of a larger database and therefore increase the possibility of early detection of high similarities of PhD thesis with other published work.

**The indicator is fulfilled.**

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

*\*general description of the criterion analysis.*

*Standard A.2.1. The IOSUD has a modern research infrastructure to support the conduct of doctoral studies' specific activities.*

*\*general description of the standard analysis.*

**Performance Indicator A.2.1.1.** *The venues and the material equipment available to the doctoral school enable the research activities in the evaluated domain to be carried out, in line with the assumed mission and objectives (computers, specific software, equipment, laboratory equipment, library, access to international databases etc.). The research infrastructure and the provision of research services are presented to the public through a specific platform. The research infrastructure described above, which was purchased and developed within the past 5 years will be presented distinctly.*

Research facilities available for PhD Students at Doctoral Domain Physics are adequate, as they fulfill all recent requirements in terms of space distribution, allocated spaces, available complementary services, etc. In terms of research infrastructure, facilities are extremely well equipped with state-of-the art equipment that can clearly help and motivate students to properly engage in their research activities.

UTCB has a total number of 18 Research Centers and 39 accredited or certified research laboratories. All doctoral students from IOSUD-UTCB are assigned to a laboratory or research center within the department where the doctoral supervisor works. They have access to the scientific research laboratories or other facilities of UTCB, according to the internal regulations of the laboratories or research centers. Also, all doctoral students have access to the international databases specific to the activity field on any UTCB computer, provided through the ANELIS Plus program.

This evaluator could not find proof of the fact that the research infrastructure and the provision of research services are presented to the public through specific online (website) platforms.



An important part of the research facilities and/or research equipment was either built or acquired in the last 5 years.

*Recommendations:*

- The evaluated institution is encouraged to include on their institutional website (sd.utcb.ro) information on the research infrastructure and the provision of research services.

***The indicator is partially fulfilled.***

***Performance Indicator 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.*

The evaluated institution proved that its research activities are carried out in partnership with other higher education and research institutes in the country or abroad, including within research networks or consortia. Also, the research services are presented publicly using a dedicated platform (ERRIS), and IOSUD representatives indicated that several partners approached them after finding their research services in the aforementioned platform.

***The indicator is fulfilled.***

***Performance Indicator 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.*

The evaluated institution proved that it has made progress in the last 5 years in increasing research capacity and enhancing quality and performance in scientific research activity, reflected by the increasing number of research grants accessed in the evaluated period.

***The indicator is fulfilled.***

### **Criterion A.3. Quality of Human Resources**

*\*general description of the criterion analysis.*

***Standard A.3.1.*** *At the level of each domain there are sufficient qualified staff to ensure the conduct of doctoral study program.*

*\*general description of the standard analysis.*



**Performance Indicator \*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>2</sup> does not exceed 20%.*

Currently, from the 42 PhD Supervisor affiliated to IOSUD, 13 are coordinating simultaneously more than 8 doctoral students (31%). Furthermore, 8 PhD Advisors (19%) are coordinating simultaneously 12 or more PhD Students.

***The indicator is not fulfilled.***

*Recommendations:*

- The evaluated institution is encouraged to develop active strategies to increase the number of affiliated PhD Supervisors in order to balance distribution of PhD Student and to decrease the number of PhD Supervisor with more than 8 doctoral students to as low as possible (as a target, 15% can be considered for 2026).
- The evaluated institution is encouraged to modify regulation in order to forbidden simultaneously PhD supervision of more than 12 doctoral students.

**Performance Indicator \*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.*

According to the information provided, only 19 PhD Advisors (45%) have a full-time employment contract for an indefinite period with the IOSUD. However, if all teaching/research staff involved in teaching/research activities related to training programs for advanced university studies or in individual research/art creation programs are taken into account, then this percentage changes dramatically, as 127 out of 138 (92%) have a full-time employment contract for an indefinite period with the IOSUD.

Therefore, this indicator is considered fulfilled.

***The indicator is fulfilled.***

## **Domain B. EDUCATIONAL EFFECTIVENESS**

*\*general description of domain analysis.*

### **Criterion B.1. The number, quality and diversity of candidates enrolled for the admission contest**

*\*general description of the criterion analysis.*

---

<sup>2</sup> 3 years for the doctoral university studies with the duration stipulated at Article 159, paragraph (3), respectively 4 years for the doctoral university studies with the duration stipulated at Article 174, paragraph (3) of the Law of national education No.1/2011 with subsequent amendments and additions, with additional extension periods approved as per Article 39, paragraph (3) of the Code of doctoral studies approved by the GD No. 681/2011 with subsequent amendments and additions.



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

- *general description of the standard analysis.*

**Performance Indicator \*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 findings from the assessed institution's documents and the evaluation meetings that took place, it was proven that admission to doctoral study programs at IOSUD-UTCB is based on selection several selection criteria including: previous academic, research and professional performance, their interest for scientific research, publications in the domain and a research proposal. Furthermore, an interview with the candidate is always carried on as part of the admission procedure.

***The indicator is fulfilled.***

**Performance Indicator 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.*

Admission to any form of education in UTCB is based on non-discriminatory principles, being promoted equal opportunity between candidates as regards gender, ethnicity or social origin. IOSUD, through its Doctoral School has a policy to stimulate the registration of doctoral students from disadvantaged social backgrounds by organizing support programs to prevent them from dropping out of university. Doctoral students from disadvantaged backgrounds with social issues receive financial support from UTCB through tax reductions.

However, there was no evidence of allocating reserved positions in the admission procedure and/or granting special scholarships for students coming from disadvantaged social environments.

*Recommendations:*

- The evaluated institution is encouraged to allocate reserved positions in the admission procedure as well as to establish special scholarships for students coming from disadvantaged social environments.

***The indicator is partially fulfilled.***

***The indicator is fulfilled.***

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

*\*general description of the criterion analysis.*



*Standard 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.*

*\*general description of the standard analysis.*

***Performance Indicator 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.*

The advanced university training program is carried out in UTCB on the basis of an educational plan developed by the CSD, endorsed by the CSUD and approved by the Senate. It comprises Ethics and academic integrity and three compulsory subjects (CS1 –complementary training subjects, CS2 – General Technical training subjects and CS3 –specialized technical training subjects), which provide all UTCB doctoral students with a unified view to addressing scientific research specific to engineering sciences and, respectively, management abilities of scientific research projects. Among the proposed disciplines, one subject is allocated to the profoundly study of research methodology and two subjects are allocated to statistical data processing and physical and mathematical modeling.

***The indicator is fulfilled.***

*Recommendations:*

Although both students and former students highly appreciated the training program, they were not fully satisfied with the contents of the available courses. Therefore, this Evaluator recommends the following:

- To include within the Training Program of the PhD Students new courses that include information on how to effectively present research output, how to make better presentations, how to speak in public and how to properly communicate a scientific message, as well as some more technical courses, such as basic computer programming or big data analysis.

***The indicator is fulfilled.***

***Performance Indicator 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.*

Among the disciplines included in the advanced university training program at UTCB, one is dedicated to Ethics and Intellectual Property in scientific research.

***The indicator is fulfilled.***

***Performance Indicator 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<sup>3</sup>.*

According to the analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself, the IOSUD has proven to have 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

***The indicator is fulfilled.***

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

*\*general description of the criterion analysis.*

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

*\*general description of the standard analysis.*

***Performance Indicator B.3.1.1.*** *For the doctoral school there are in place mechanisms for valorification 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.*

The evaluated institution provided a list of significant works of PhD students who have obtained the title of doctor in the last 5 years as well as a list of patents, models and technologies obtained in the last year in the UTCB portfolio. The institution also claims that initiatives to exploit the results of doctoral studies through related products or services are consistent with the approach of involving doctoral students in research contracts funded by either national or European programs or by contracts with third parties.

According to the discussions with IOSUD management, it was also explained that publishing in high quality journals is also encouraged and supported by financing Article Processing Charges (APC).

***The indicator is fulfilled.***

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

---

<sup>3</sup> Or by what the graduate should know, understand and to be able to do, according to the provisions of the Methodology of 17 March 2017 regarding inscription and registration of higher education qualifications in the National Register of Qualifications in Higher Education (RNCIS) approved by the Order No.3475/2017 with subsequent amendments and additions.



Standard B.4.1. Doctoral theses fulfil high quality standards

- *general description of the standard analysis.*

**Performance Indicator 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.*

For the evaluated period, there were no 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.

***The indicator is fulfilled.***

## **Domain C. QUALITY MANAGEMENT**

*\*general description of domain analysis.*

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

*\*general description of the criterion analysis.*

Standard 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.*

*\*general description of the standard analysis.*

**Performance Indicator 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 to various events, publication of papers etc.) and counselling made available to doctoral students.*

The quality assurance management is a real strength of the evaluated institution and it follows closely the European Standards and Guidelines. At the level of the Doctoral School, an analysis is carried out on the evaluation of PhD supervisors, taking into account the outcome of their evaluation at the level of the department and the evaluation by the students. The necessary measures are established, which are variable according to the provisions of the Doctoral Studies Regulations of the doctoral school. The scientific work of PhD supervisors is analyzed on the basis of the complete and detailed data reported in the annual self-assessment sheets of the teaching and scientific activity.





At IOSUD-UTCB, measures been implemented to support the increase of the quality, quantity and visibility of activities and the promotion of academic ethics level of IOSUD. These relate to: effective of activities through digitization, information for masters, doctoral students, post-doctoral students and their access documentary sources, diversification courses offered to the doctoral students and masters, an increased level of research regarding the research activity, the rules for developing a scientific work at an international level and the of documentation tools, as well as on anti-plagiarism verification and ethics and academic deontology. These measures support the doctoral students, postdoctoral students and master's students from the university.

***The indicator is fulfilled.***

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

According to the information provided by the evaluated institution and based on the discussion that took place during the meetings, it is clear for this evaluator that students' associations and, according to the case, representatives of students, organise 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.

*Recommendations:*

- In order to create a real climate of quality culture, the institution is encouraged to promote the purpose and benefits of quality assurance procedures among both staff and students. The student satisfaction questionnaires should be filled at least once a year by the majority of PhD Students. Consequently, the evaluation results should be considered for strategic decision-making. Both the results as well as the consequences are highly recommended to be made publicly available (as for example, on the institutional website).
- The evaluated institution is encouraged to try to motivate students to take more responsibility and ownership for the development of both SD and IOSUD.

***The indicator is fulfilled.***

***Performance Indicator C.1.1.3. Students' associations and, according to the case, representatives of students organise 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.***

According to the information provided by the evaluated institution and based on the discussion that took place during the meetings, it is clear for this evaluator that students' associations and, according to the case, representatives of students, organise 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 indicator is fulfilled.**

**Performance Indicator \*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 evaluated institution provided a document that details a general framework of measures necessary to remedy deficiencies in doctoral work and to boost scientific and academic performance (Annex II.15). Also, at Doctoral School level, it was also adopted in 2018 a plan of measures (Annex I.69) to increase the scientific level of doctoral thesis carried out at UTCB. The sole existence of these documents are enough to consider this indicator as fulfilled. However, as it could be observed, the level of implementation of the measures mentioned therein is rather small.

*Recommendations:*

- The evaluated institution is encouraged to accelerate the implementation of the majority of the measures specified and adopted in the documents provided as Annex I.69 and Annex II.15.

**The indicator is fulfilled.**

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

*\*general description of the criterion analysis.*

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

*\*general description of the standard analysis.*

**Performance Indicator 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 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 training program based on advanced academic studies;*
- (f) the academic and scientific profile, thematic areas/research themes of the Doctoral advisors within the domain, 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) 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.*



According to the description of the facts, the findings from the assessed institution's documents, the consulted websites and the evaluation visit itself it can be concluded that the IOSUD publishes, in compliance with the general regulations on data protection, on several websites related with the Doctoral domain evaluated:

[https://sd.utcb.ro/wp-content/uploads/2019/03/ROF-Revizia-8\\_final\\_26.02.19.pdf](https://sd.utcb.ro/wp-content/uploads/2019/03/ROF-Revizia-8_final_26.02.19.pdf)

[https://sd.utcb.ro/wp-content/uploads/2019/03/METODOLOGIE-DE-ADMITERE-STUDII-UNIVERSITARE-DE-DOCTORAT-2019-2020\\_final\\_25.02.2019.pdf](https://sd.utcb.ro/wp-content/uploads/2019/03/METODOLOGIE-DE-ADMITERE-STUDII-UNIVERSITARE-DE-DOCTORAT-2019-2020_final_25.02.2019.pdf)

[https://sd.utcb.ro/wp-content/uploads/2019/03/Metodologie-finalizare-SUD\\_final\\_25.02.2019.pdf](https://sd.utcb.ro/wp-content/uploads/2019/03/Metodologie-finalizare-SUD_final_25.02.2019.pdf)

<https://sd.utcb.ro/doctorat/programa/>

<https://sd.utcb.ro/doctorat/domenii-specializari-conducatori/>

<https://sd.utcb.ro/doctorat/regulamente/>

<https://sd.utcb.ro/category/blog/teze-de-doctorat/>

<https://sd.utcb.ro/category/blog/anunturi-pentru-doctoranzi/>

relevant information on:

- the Doctoral School regulation;
- the admission regulation;
- the doctoral studies contract;
- the study completion regulation including the procedure for the public presentation of the thesis;
- the content of training program based on advanced academic studies;
- the academic and scientific profile, thematic areas/research themes of the Doctoral advisors within the domain, as well as their institutional contact data;
- the list of doctoral students within the domain with necessary information (year of registration; advisor);
- information on the standards for developing the doctoral thesis;
- 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.

It has to be mentioned that I was only able to find links to the doctoral theses' summaries to be publicly presented and the date, time, place where they will be presented; starting April 2021. No older posts were found. Therefore, it appears that presenting this information on the website is not a common practice, but rather was recently included in compliance with the objectives of this evaluation.

*Recommendations:*

- The evaluated institution is encouraged to re-organize information on their website (sd.utcb.ro) in order to simplify acces paths and to make retrieveing information an easier task. This evaluator had difficulties to find some relevant information. Also, the evaluated instituiton should post regularly 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.

***The indicator is fulfilled.***



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

*\*general description of the standard analysis.*

**Performance Indicator 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.*

UTCb benefits through the ANELIS Plus 2020 National Project of online access to scientific electronic resources (databases/platforms of scientific journals with full text and bibliographic and bibliometric databases) in order to support research, education, innovation and stimulate scientific production at national level.

All optional subjects within the Advanced University Training Program contain modules for which the discipline managers have made the course support available to the first-year Doctoral students in electronic format. Starting with the 2017-2018 academic year, a centralized action was undertaken for all year 1 students to gain access to the e-information documentation resource portal. In this respect, all Year 1 doctoral students have received EDUROAM access and institutional email addresses ([nome.prenume@phd.utcb.ro](mailto:nome.prenume@phd.utcb.ro)) to facilitate the institutional access to the ANELISPlus platform.

**The indicator is fulfilled.**

**Performance Indicator 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.*

Within IOSUD-UTCb was implemented a system of verifying the originality of theses and scientific works developed by the doctoral students through the electronic document comparison service offered by the [www.sistemantiplagiat.ro](http://www.sistemantiplagiat.ro). This grants access to each PhD Student to an electronic system for verifying the degree of similarity with other existing scientific or artistic works.

**The indicator is fulfilled.**

**Performance Indicator 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.*

After analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself it was verified that there are internal regulations that ensure that PhD students have access to all research laboratories available, under the supervision of PhD Advisor and/or other research staff.

**The indicator is fulfilled.**

### **Criterion C.3. Internationalization**

*\*general description of the criterion analysis.*

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

*\*general description of the standard analysis.*



IOSUD - UTCB has developed a Strategic plan for the internationalization of UTCB (provided as AnnexII.16) which is implemented at the doctoral studies and at Doctoral School level, there have been taken several measures to facilitate the access of foreign students to doctoral studies, even more so for the ones that need study equating and an acceptance letter, by providing a document submission deadline that allows them to obtain the necessary documents in due time.

**Performance Indicator \*C.3.1.1.** *IOSUD, for every evaluated domain, 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.*

Different types of international mobility agreements were concluded for IOSUD-UTCB PhD Students, which included two types of mobility: study mobility and placement mobility, respectively. *The percentage of PhD Students that have completed a training course abroad or other mobility forms such as attending international scientific conferences in the evaluated period is 94 out of 315 (29,8%). On the other hand, the number of doctoral students participating at mobility periods abroad during the evaluated period is 9 out of 315 (2,9%).*

*Recommendations:*

- IOSUD-UTCB is encouraged to actively apply policies and measures aiming at increasing the number of students' research training and internships in external institutions (mobility period abroad). It is highly recommended for each student to perform a research internship of at least three months outside the evaluated institution during his/hers PhD Thesis development.

***The indicator is not fulfilled.***

**Performance Indicator 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.*

According to the analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself, it was clear that there is an international opening related to the co-opting of foreign students and for the organization of doctorates in international co-tutelage. Also, SD Directors and Council members showed a continuing concern regarding the invitation of leading experts and specialists for lectures of interest for PhD students.

In the evaluated period, a total of 19 co-tutelage PhD thesis were defended, which is a good number. Currently, there are three joint doctoral theses in development.

Also, the institution invited several leading experts to deliver courses/lectures for doctoral students during the evaluation period.



Therefore, the Performance Indicator is considered to be fulfilled.

*Recommendations:*

- The evaluated institution is encouraged to increase the percentage of foreign (international) participants within PhD Committees. As a possible target, a recommendation would be that 50% of PhD Committees should benefit from the presence of an international reviewer.
- The evaluated institution should further increase its collaborative effort into realizing a higher number of doctorates in co-tutelage with both national and international institutions.

***The indicator is fulfilled.***

***Performance Indicator 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 organised in international co-tutelage.*

According to the analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself, for the evaluated period only 1 co-tutelage PhD thesis was defended and three more are under development (total of 4). Regarding the number of PhD submitted in an international foreign language, their number for the evaluated period is 8 (6 in English and 2 in French).

This means that 12 out of 315 PhD thesis (3,2%) apparently fulfill these requirements. However, according to my personal interpretation of this indicator, the statement "PhD Thesis drafted" means that other 28 theses that started during the evaluation period and are expected to be written and defended in an international language, should also be considered. Therefore, the percentage modifies to 12,7%.

***The indicator is fulfilled.***

***Performance Indicator 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<sup>4</sup> etc.).*

- *description of the facts, the findings from the assessed institution's documents and the evaluation visit itself.*
- *analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself.*

According to the analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself, the internationalization of activities carried out during the doctoral studies is supported by IOSUD mostly by participating in educational fairs to attract international doctoral students, and to some extent by including international experts in guidance committees or doctoral committees.

This evaluator considers that the number of international experts in guidance committees or doctoral committees should be dramatically increased in the next 5 years.

*Recommendations:*

---

<sup>4</sup> Doctoral studies are completed by presenting the doctoral thesis in public session in front of a committee whose members hear and judge the final public presentation of the thesis





- The evaluated institution is encouraged to increase the percentage of international experts in guidance committees or doctoral committees as close as possible to 50% within next 5 years.

***The indicator is fulfilled.***

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

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

- *general description of the standard analysis.*

***Performance Indicator 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 postionings, 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 measures to assure equal opportunities and protection against intolerance and discrimination of any kind;*

*IOSUD monitors 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.*

According to the analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself, it can be certified that 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;
- 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 measures to assure equal opportunities and protection against intolerance and discrimination of any kind.

Also, it was proven that IOSUD monitors and permanently evaluates these practices and can prove they are applied to all activities and engagement of students in all these processes.





*Recommendations:*

- The evaluated institution is encouraged to modify regulation of the Ethics Commission in order to also consider anonymous complaints. Also, it would be beneficial to include within this Commission, if possible, members that do not belong to the University.

***The indicator is fulfilled.***

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

For the evaluated period, no notice was registered regarding the suspicion of plagiarism related to doctoral theses or self-notifications regarding the violation of any norms and ethical aspects.

***The indicator is fulfilled.***

***Performance Indicator 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..

During the evaluated period, no doctoral theses were registered with a final decision to withdraw the doctoral degree due to plagiarism, nor any complaint or self-notifications regarding the violation of any norms and ethical issues.

***The indicator is fulfilled.***

***Performance Indicator 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.

Not applicable, as no PhD Thesis were in that situation.

:

***The indicator is fulfilled.***

***Performance Indicator 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 been finalized and defended with a definitive decision of withdrawal of the “doctor” title for plagiarism.



The evaluated institution provided the Regulation on the organization and conduct of doctoral studies (as Annex I.27). The regulation contains information on how to prevent fraud in scientific research, including plagiarism in the head, 7 art. 35 and 36.

However, Art. 36 specifies that “sanctions for fraud may include, depending on the seriousness of the offence: written warnings, withdrawal of the scholarship for a fixed period or expulsion and termination of the doctoral study contract”.

None of the measures specified above are included in the document. The most worrying part is that no sanctions or consequences are clearly specified for PhD Advisors.

*Recommendations:*

- IOSUD-UTCB has to modify the Regulation on the organization and conduct of doctoral studies in order to:
  - o More clearly specify sanctions for PhD Students, in accordance with the level of severity of the fraud;
  - o Include sanctions for PhD Advisors, specially for those having coordinated one or several doctoral theses with a definitive decision of withdrawal of the “doctor” title for plagiarism.

***The indicator is partially fulfilled.***

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

Not applicable, as for the evaluated period no doctoral theses were registered with a final decision to withdraw the doctoral degree for plagiarism.

***The indicator is fulfilled.***

***Performance Indicator 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).***

The "in extenso" doctoral theses defended at IOSUD-UTCB can be accessed through the UTCB electronic library, from the following link: <http://digilib.utcb.ro/tinread.jsp>.

It is true that several information, such as the domain, author, doctoral advisor and title of the thesis can be found. However, the platform has a very difficult to operate user interface, and for this evaluator was impossible to access and download in electronic format any of the PhD Thesis that were consulted (defended in 2020).

All doctoral theses from 2016 until today are listed on the platform of the Ministry of Education, the vast majority of which can be consulted: <https://rei.gov.ro/teze-doctorat>.

This platform can be accessed only after registration, which means that it does not grant public access.



*Recommendations:*

- IOSUD-UTCB has to grant full access to defended PhD Thesis in electronic format through a dedicated web platform.

***The indicator is partially fulfilled.***

#### IV. SWOT Analysis

<u>Strengths:</u>	<u>Weaknesses:</u>
<p>IOSUD-UTCB benefits of the following:</p> <ol style="list-style-type: none"> <li>1. Highly qualified PhD Supervisors, with significantly number of publication and professional acknowledgment;</li> <li>2. High degree of employability of PhD Students;</li> <li>3. Research facilities are adequate and they fulfill all recent requirements in terms of space distribution, allocated spaces, available complementary services, etc. In terms of research infrastructure, research facilities have equipment that can clearly help and motivate students to properly engage in their research activities;</li> <li>4. The strong link, in terms of collaboration at educational level as well as posterior employment of PhD Students, between the evaluated IOSUD and several companies and research institutes.</li> <li>5. Highly motivated management at both IOSUD and SD levels.</li> </ol>	<ol style="list-style-type: none"> <li>1. High ratio of PhD Students / PhD Supervisor;  <b>Recommendation:</b> The evaluated institution is encouraged to develop active strategies to increase the number of affiliated PhD Supervisors in order to balance distribution of PhD Student and to decrease the number of PhD Supervisor with more than 8 doctoral students to as low as possible (as a target, 15% can be considered for 2026).            The evaluated institution is encouraged to modify regulation in order to forbidden simultaneously PhD supervision of more than 12 doctoral students.</li> <li>2. Available financial resources for a PhD student varied significantly depending on if the PhD Advisor had or had not an ongoing research grant;  <b>Recommendation:</b> IOSUD-UTCB is encouraged to develop strategies to ensure proper and equal financial support for all PhD Students.</li> <li>3. There is a low number of students that participated in research training and internships in external institutions (mobility period abroad).  <b>Recommendation:</b> IOSUD-UTCB is encouraged to actively apply policies and measures aiming at increasing the number of students' research training and internships in external institutions (mobility period abroad). It is highly recommended for each student to perform a research internship</li> </ol>

	<p>of at least three months outside the evaluated institution during his/hers PhD Thesis development.</p> <p>4. The high number of international partners and/or international collaborators is not mirrored by the participation of these collaborators in the diverse activities that are typical of a doctoral school (PhD committees, co-tutelage, joint research grants, etc.). It seems that the evaluated institution does not have a precise strategy when deciding international partners. This seems more likely as a strategy of accumulation rather than a collaborative effort towards a common goal.</p> <p><b>Recommendation:</b> To engage more of the international collaborators in diverse activities that are typical of a doctoral school (PhD committees, co-tutelage, joint research grants, etc.), as well as consider developing a strategic policy in this area and develop partnership based on shared research interest, similar future plans or even a shared past.</p> <p>5. CEAC started working in 2021 and it was pretty clear that, as newly established, its tasks and responsibilities as well as coordination with the Quality Management Department are not yet clearly defined.</p> <p>The evaluated institution has tools and mechanisms in place to identify the needs and satisfaction of students through specific questionnaires. However, it was truly concerning that PhD students were largely unaware of the existence of a student satisfaction questionnaire and it was not clear evidence that an action plan was drafted and implemented based on answers of the aforementioned questionnaires.</p> <p><b>Recommendation:</b> In order to create a real climate of quality culture, the institution is encouraged to promote actively the purpose and benefits of quality assurance procedures among both staff and students. The student satisfaction questionnaires should be filled at least once a</p>
--	--



year by the majority of PhD Students. Consequently, the evaluation results should be considered for strategic decision-making. Both the results as well as the consequences are highly recommended to be made publicly available (as for example, on the institutional website). The evaluated institution is encouraged to try to motivate students to take more responsibility and ownership for the development of both IOSDU and SD.

**Opportunities:**

1. It seems that there is a long tradition of collaboration between the SD and certain companies, a collaboration that could be exploited more intensively in the future through joint PhD Theses, research/travel grants or private-funded research labs.

**Threats:**

1. High percentage of PhD Advisors that are 65+ year old, that might lead to an even greater deficit of coordinators in the near future.


**Recommendations:** The evaluated institution is encouraged to develop active strategies to increase the number of affiliated PhD Supervisors (even from outside UTCB) as well as to support professors through obtaining their habilitation as PhD Advisors. For this latter one, probably the most important aspect to be solved, is to establish an office or department at IOSUD level that can identify funding options through research projects and assist applicants during the writing and submission process.

2. Overestimation of the degree of responsiveness of potential PhD supervisors to IOSUD's requests to pursue and complete habilitation, in the absence of internal evaluation and promotion criteria linked to those established at national level.

**Recommendations:** The evaluated institution is encouraged to establish internal evaluation and promotion criteria as close as possible to those established as nation specialized committee. Also, self-evaluation report from staff should be requested and collected periodically.

## V. Overview of judgments awarded and of the recommendations

No.	Type of indicator (*, C)	Performance indicator	Judgment	Recommendations
1		<i>Performance Indicator A.1.1.1.</i>	Fulfilled	
2		<i>Performance Indicator A.1.1.2.</i>	Fulfilled	
3		<i>Performance Indicator A.1.2.1</i>	Fulfilled	It is recommended to complete the student management informatic (IT) system in order to extend its capabilities and to include an electronic signature system, this way achieving almost complete digitalization of the bureaucratic flow within IOSUD.
4	C	<i>Performance Indicator A.1.2.2.</i>	Fulfilled	It is recommended to use a state of the art plagiarism check software (such as Turnitin) in order to benefit from the use of a larger database and therefore increase the possibility of early detection of high similarities of PhD thesis with other published work
8		<i>Performance Indicator A.2.1.1</i>	Partially Fulfilled	The evaluated institution is encouraged to include on their institutional website (sd.utcb.ro) information on the research infrastructure and the provision of research services.
		<i>Performance Indicator A.2.1.2</i>	Fulfilled	
		<i>Performance Indicator A.2.1.3</i>	Fulfilled	
		<i>Performance Indicator A.3.1.1.</i>	Not Fulfilled	The evaluated institution is encouraged to develop active strategies to increase the number of affiliated PhD Supervisors in order to balance distribution of PhD Student and to decrease the number of PhD Supervisor with more than 8 doctoral students to as low as possible (as a target, 15% can be considered for 2026). The evaluated institution is encouraged to modify regulation in order to forbidden simultaneously PhD supervision of more than 12 doctoral students.
	C	<i>Performance Indicator *A.3.1.2.</i>	Fulfilled	
		<i>Performance Indicator *B.1.1.1.</i>	Fulfilled	
		<i>Performance Indicator B.1.1.2.</i>	Partially Fulfilled	The evaluated institution is encouraged to allocate reserved positions in the admission procedure as well as to establish special scholarships for students coming from disadvantaged social environments.
		<i>Performance Indicator B.2.1.1.</i>	Fulfilled	Although both students and former students highly appreciated the training program, they were not fully satisfied with the contents of the available courses. Therefore, this Evaluator recommends the following:

				To include within the Training Program of the PhD Students new courses that include information on how to effectively present research output, how to make better presentations, how to speak in public and how to properly communicate a scientific message, as well as some more technical courses, such as basic computer programming or big data analysis.
		<b>Performance Indicator B.2.1.2.</b>	<b>Fulfilled</b>	
		<b>Performance Indicator B.2.1.3.</b>	<b>Fulfilled</b>	
		<b>Performance Indicator B.3.1.1.</b>	<b>Fulfilled</b>	
	<b>C</b>	<b>Performance Indicator B.4.1.1.</b>	<b>Fulfilled</b>	
		<b>Performance Indicator C.1.1.1.</b>	<b>Fulfilled</b>	
		<b>Performance Indicator *C.1.1.2.</b>	<b>Fulfilled</b>	In order to create a real climate of quality culture, the institution is encouraged to promote the purpose and benefits of quality assurance procedures among both staff and students. The student satisfaction questionnaires should be filled at least once a year by the majority of PhD Students. Consequently, the evaluation results should be considered for strategic decision-making. Both the results as well as the consequences are highly recommended to be made publicly available (as for example, on the institutional website). The evaluated institution is encouraged to try to motivate students to take more responsibility and ownership for the development of both SD and IOSUD.
		<b>Performance Indicator C.1.1.3.</b>	<b>Fulfilled</b>	
		<b>Performance Indicator *C.1.1.4.</b>	<b>Fulfilled</b>	The evaluated institution is encouraged to accelerate the implementation of the majority of the measures specified and adopted in the documents provided as Annex I.69 and Annex II.15.
	<b>C</b>	<b>Performance Indicator C.2.1.1.</b>	<b>Fulfilled</b>	The evaluated institution is encouraged to re-organize information on their website (sd.utcb.ro) in order to simplify access paths and to make retrieving information an easier task. This evaluator had difficulties to find some relevant information. Also, the evaluated institution should post regularly 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.
	<b>C</b>	<b>Performance Indicator C.2.2.1.</b>	<b>Fulfilled</b>	
		<b>Performance Indicator C.2.2.2.</b>	<b>Fulfilled</b>	



		<b>Performance Indicator</b> <b>C.2.2.3.</b>	<b>Fulfilled</b>	
		<b>Performance Indicator</b> <b>*C.3.1.1.</b>	<b>Not Fulfilled</b>	IOSUD-UTCB is encouraged to actively apply policies and measures aiming at increasing the number of students' research training and internships in external institutions (mobility period abroad). It is highly recommended for each student to perform a research internship of at least three months outside the evaluated institution during his/hers PhD Thesis development.
		<b>Performance Indicator</b> <b>C.3.1.2.</b>	<b>Fulfilled</b>	The evaluated institution is encouraged to increase the percentage of foreign (international) participants within PhD Committees. As a possible target, a recommendation would be that 50% of PhD Committees should benefit from the presence of an international reviewer.  The evaluated institution should further increase its collaborative effort into realizing a higher number of doctorates in co-tutelage with both national and international institutions.
		<b>Performance Indicator</b> <b>C.3.1.3.</b>	<b>Fulfilled</b>	
		<b>Performance Indicator</b> <b>C.3.1.4.</b>	<b>Fulfilled</b>	The evaluated institution is encouraged to increase the percentage of international experts in guidance committees or doctoral committees as close as possibly to 50% within next 5 years.
		<b>Performance Indicator</b> <b>C.4.1.1.</b>	<b>Fulfilled</b>	The evaluated institution is encouraged to modify regulation of the Ethics Commission in order to also consider anonymous complaints. Also, it would be beneficial to include within this Commission, if possible, members that do not belong to the University.
		<b>Performance Indicator</b> <b>C.4.1.2.</b>	<b>Fulfilled</b>	
		<b>Performance Indicator</b> <b>C.4.1.3.</b>	<b>Fulfilled</b>	
	<b>C</b>	<b>Performance Indicator</b> <b>C.4.1.4.</b>	<b>Fulfilled</b>	
		<b>Performance Indicator</b> <b>C.4.1.5.</b>	<b>Partially Fulfilled</b>	IOSUD-UTCB has to modify the Regulation on the organization and conduct of doctoral studies in order to: - More clearly specify sanctions for PhD Students, in accordance with the level of severity of the fraud; - Include sanctions for PhD Advisors, especially for those having coordinated one or several doctoral theses with a definitive decision of withdrawal of the "doctor" title for plagiarism.
		<b>Performance Indicator</b> <b>C.*4.1.6.</b>	<b>Fulfilled</b>	
		<b>Performance Indicator</b> <b>C.4.1.7.</b>	<b>Partially Fulfilled</b>	IOSUD-UTCB has to grant full access to defended PhD Thesis in electronic format through a dedicated web platform



## VI. Conclusions and general recommendations

The Technical University of Civil Engineering Bucharest (UTCB) is a Doctorate Awarding Institution (IOSUD) comprising a Doctoral School that can organize doctoral studies in the fundamental field of "Engineering Sciences". The mission of IOSUD-UTCB is to carry out and develop the activity of doctoral education and, implicitly, in-depth scientific research in its fields of competence, for the benefit and progress of society.

The IOSUD-UTCB benefits of highly qualified PhD Supervisors, with significantly number of publications and professional acknowledgment. Research facilities are adequate and they fulfill all recent requirements in terms of space distribution, allocated spaces, available complementary services, etc. In terms of research infrastructure, research facilities have equipment that can clearly help and motivate students to properly engage in their research activities. Furthermore, there is a high degree of employability of the PhD Students of IOSUD-UTCB shortly after thesis defense. Another important positive fact that has to be mentioned is the strong link, in terms of collaboration at educational level as well as posterior employment of PhD Students, between IOSUD-UTCB and several companies and research institutes.

One of the most outstanding positive aspects is, undoubtedly, the existence of a highly motivated management at both IOSUD and SD levels that will surely lead the development of the institution on a path of continued growth and success.

Some weaknesses have also been identified, such as the high ratio of PhD Students / PhD Supervisor; the fact that the available financial resources for a PhD student varied significantly depending on if the PhD Advisor had or had not an ongoing research grant or that there is a low number of students that participated in research training and internships in external institutions (mobility period abroad). Furthermore, the high number of international partners and/or international collaborators is not mirrored by the participation of these collaborators in the diverse activities that are typical of a doctoral school (PhD committees, co-tutelage, joint research grants, etc.). The Quality Assurance Commission (CEAC) started working in 2021 and it was pretty clear that, as newly established, its tasks and responsibilities as well as coordination with the Quality Management Department are not yet clearly defined. Finally, the evaluated institution has tools and mechanisms in place to identify the needs and satisfaction of students through specific questionnaires. However, it was truly concerning that PhD students were largely unaware of the existence of a student satisfaction questionnaire and it was not clear evidence that an action plan was drafted and implemented based on answers of the aforementioned questionnaires.



## VII. Annexes

- *The detailed schedule of the evaluation visit – MANDATORY.*

### ÎNTĂLNIRI PRELIMINARE/ PRELIMINARY MEETING

Vizita de evaluare instituțională - IOSUD/ domeniul de studii universitare de doctorat a Universității Tehnice de Construcții din București  
The institutional evaluation visit - IOSUD/ doctoral study domains of the Technical University of Civil Engineering Bucharest

Intervalul orar/ Hour (Bucharest time)	Activitate/ Activity	Participanți/ Participants
<b>Vineri/ Friday, 02.07.2021</b>		
16:00 – 18:00	<p>Întâlnirea echipei de evaluare pentru discutarea principalelor aspecte metodologice legate de activitatea de evaluare a studiilor universitare de doctorat Meeting of panel members for discussing main methodological aspects related to the evaluation of doctoral studies</p> <p>platforma ARACIS ZOOM (Apăsați aici pentru a vă conecta) ARACIS ZOOM platform (Click here to join)</p>	<p><b>Toți membrii echipei de evaluare</b> All evaluation panel members</p>

Programul<sup>1</sup> vizitei de evaluare instituțională - IOSUD/ domeniul de studii universitare de doctorat a Universității Tehnice de Construcții din București  
The timetable of the institutional evaluation visit - IOSUD/ doctoral study domains at the Technical University of Civil Engineering Bucharest

Perioada de derulare a vizitei: 12-16.07.2021  
The evaluation period: 12-16.07.2021

Evaluarea Externă Periodică a IOSUD și a domeniilor de studii universitare de doctorat  
Periodical External Evaluation of the Institution Organising Doctoral Study Programs (IOSUD), and of the doctoral study domains

Intervalul orar/ Hour	Activitate/ Activity		Participanți/ Participants
	IOSUD/ IOSUD evaluation panel	domenii/ domains evaluation panel	
<b>Luni/ Monday, 12.07.2021</b>			
09:00-09:45	<p>Întâlnire preliminară online pentru pregătirea și armonizarea etapelor de evaluare, în modul mixt, la nivel de domenii de doctorat și IOSUD Online preliminary meeting for the preparation and harmonization of evaluation steps, in hybrid mode, of doctoral study domains and IOSUD</p> <p>Înregistrare audio-video/ platforma ARACIS ZOOM (Apăsați aici pentru a vă conecta) Audio-video recording/ ARACIS ZOOM platform (Click here to join)</p>		<p>Comisia de evaluare IOSUD&amp;domenii IOSUD&amp;domains evaluation panel</p> <p>- <b>toți membrii echipei de evaluare</b> all evaluation panel members</p>
10:00-10:45	<p>Întâlnirea online a comisiei de experți evaluatori cu reprezentanții conducerii universității și ai CSUD Online meeting with representatives of the institution and of the Council for Academic Doctoral Studies (CSUD)</p> <p>Înregistrare audio-video/ platforma UTCB MS Teams (Apăsați aici pentru a vă conecta) Audio-video recording/ UTCB MS Teams platform (Click here to join)</p>		<p>Comisia de evaluare IOSUD&amp;domenii IOSUD&amp;domains evaluation panel</p> <p>- <b>toți membrii echipei de evaluare</b> all evaluation panel members</p> <p>- reprezentanți ai conducerii representatives of the University's management</p> <p>- reprezentanți ai CSUD și ai școlii/școlilor doctorale representatives of the CSUD and of the Doctoral School/Schools</p>

<sup>1</sup> În perioada vizitei, pot fi solicitate și alte întâlniri, pentru eventuale clarificări.  
During the visit, other meetings may be requested for possible clarifications.

Intervalul orar/ Hour	Activitate/ Activity		Participanți/ Participants
	IOSUD/ IOSUD evaluation panel	domenii/ domains evaluation panel	
			- persoana de contact IOSUD/domenii the contact person for IOSUD/ doctoral domains
11:00-12:00		<p>Activități de evaluare Evaluation activities</p> <p><b>Domeniul Inginerie civilă și instalații:</b> Întâlnire online a comisiei de experți evaluatori cu responsabilul domeniului de studii universitare de doctorat evaluat și cu echipa care a realizat raportul de evaluare internă</p> <p><b>Domain Civil and building services engineering:</b> Online meeting with the contact person for the doctoral study domain under review and the team who drafted the internal evaluation report</p> <p>Înregistrare audio-video/ platforma UTCB MS Teams (Apăsați aici pentru a vă conecta) Audio-video recording/ UTCB MS Teams platform (Click here to join)</p>	<p>Comisia de evaluare domeniu Domain evaluation panel</p> <p>-membrii comisiei de experți evaluatori domeniu members of domain evaluation panel</p> <p>- responsabilul domeniului de studii universitare de doctorat evaluat și echipa care a realizat raportul de evaluare internă The doctoral studies domain contact person and the team who drafted the internal evaluation report</p>
12:15-13:15		<p>Activități de evaluare Evaluation activities</p> <p><b>Domeniul Inginerie mecanică:</b> Întâlnire online a comisiei de experți evaluatori cu responsabilul domeniului de studii universitare de doctorat evaluat și cu echipa care a realizat raportul de evaluare internă</p> <p><b>Domain Mechanical engineering:</b> Online meeting with the contact person for the doctoral study domain under review and the team who drafted the internal evaluation report</p> <p>Înregistrare audio-video/ platforma UTCB MS Teams (Apăsați aici pentru a vă conecta) Audio-video recording/ UTCB MS Teams platform</p>	<p>Comisia de evaluare domeniu Domain evaluation panel</p> <p>-membrii comisiei de experți evaluatori domeniu members of domain evaluation panel</p> <p>- responsabilul domeniului de studii universitare de doctorat evaluat și echipa care a realizat raportul de evaluare internă The doctoral studies domain contact person and the team who drafted the internal evaluation report</p>

3

Intervalul orar/ Hour	Activitate/ Activity		Participanți/ Participants
	IOSUD/ IOSUD evaluation panel	domenii/ domains evaluation panel	
		(Click here to join)	
13:30-14:30	<p>Activități de evaluare Evaluation activities</p> <p><b>IOSUD:</b> Întâlnire online a comisiei de experți evaluatori cu directorul CSUD/directorii școlilor doctorale din IOSUD supus procesului de evaluare și cu echipa care a realizat raportul de evaluare internă</p> <p><b>IOSUD:</b> Online meeting with the director of CSUD/ directors of doctoral schools and the team who drafted the internal evaluation report</p> <p>Înregistrare audio-video/ platforma UTCB MS Teams (Apăsați aici pentru a vă conecta) Audio-video recording/ UTCB MS Teams platform (Click here to join)</p>		<p>Comisia de evaluare IOSUD IOSUD evaluation panel</p> <p>- membrii comisiei de experți evaluatori IOSUD members of IOSUD evaluation panel</p> <p>- reprezentanți ai CSUD și ai școlii/școlilor doctorale/ IOSUD representatives of CSUD and of doctoral school(s)/IOSUD</p>
14:45-15:45		<p>Activități de evaluare Evaluation activities</p> <p><b>Domeniul<sup>2</sup>:</b> Întâlnire online a comisiei de experți evaluatori cu personalul didactic aferent domeniului evaluat</p> <p><b>Domain:</b> Online meeting with the academic staff corresponding to the doctoral study domain</p> <p>Înregistrare audio-video/ platforma UTCB MS Teams (Apăsați aici pentru a vă conecta - <b>Inginerie civilă și instalații</b>) (Apăsați aici pentru a vă conecta - <b>Inginerie mecanică</b>) Audio-video recording/ UTCB MS Teams platform</p>	<p>Comisia de evaluare domeniu Domain evaluation panel</p> <p>-membrii comisiei de experți evaluatori domeniu members of domain evaluation panel</p> <p>-cadre didactice cu titlul de conducător de doctorat Doctoral coordinators</p>

<sup>2</sup> Pentru toate întâlnirile din program unde se menționează domeniu, se vor organiza 2 întâlniri în paralel pentru cele 2 domenii de studii universitare de doctorat din componența IOSUD. For all the timetable meetings where the domain is mentioned, 2 meetings will be organized in parallel for the 2 doctoral university studies domains within IOSUD.

4



Interval orar/ Hour	Activitate/ Activity		Participanți/ Participants
	IOSUD/ IOSUD evaluation panel	domenii/ domains evaluation panel	
		<a href="#">(Click here to join - Civil and building services engineering)</a> <a href="#">(Click here to join - Mechanical engineering)</a>	
15:45-16:45	Activități de evaluare <i>Evaluation activities</i> <b>IOSUD:</b> Întâlnire online a comisiei de experți evaluatori cu personalul didactic aferent școlilor doctorale din IOSUD <i>IOSUD: Online meeting with IOSUD academic staff</i> Înregistrare audio-video/ platforma UTCB MS Teams (Apăsați <a href="#">aici</a> pentru a vă conecta) <i>Audio-video recording/ UTCB MS Teams platform (Click here to join)</i>		<b>Comisia de evaluare IOSUD</b> <i>IOSUD evaluation panel</i> - membrii comisiei de experți evaluatori IOSUD <i>members of IOSUD evaluation panel</i> - cadre didactice cu titlul de conducător de doctorat <i>Doctoral coordinators</i>
16:45-18:00	Continuarea activităților de evaluare a domeniilor de studii universitare de doctorat și IOSUD <i>Continuation of the doctoral study domain and IOSUD evaluation activities</i> <b>Se lucrează separat.<sup>3</sup></b> <i>Independent evaluation activities.</i>		<b>Comisia de evaluare IOSUD&amp;domenii</b> <i>IOSUD&amp;domains evaluation panel</i> - la nivel de IOSUD <i>at IOSUD level</i> - la nivel de domenii de doctorat <i>at doctoral study domain level</i>
<b>Marti/ Tuesday, 13.07.2021</b>			
09:00-10:00	Întâlnire online cu membrii Comisiei de Etică a universității <i>Online meeting with the members of the Ethics Commission</i>		<b>Comisia de evaluare IOSUD&amp;domenii</b> <i>IOSUD&amp;domains evaluation panel</i>

<sup>3</sup> În cazul în care se organizează întâlniri suplimentare cu reprezentanții instituției de învățământ superior sau cu alte părți interesate, acestea se vor organiza în format online, după caz, de către instituția evaluată sau de către echipa de evaluare, iar înregistrările se vor încărca în cloud-ul ARACIS. Dacă sunt întâlniri între membrii echipei de evaluare, nu este necesară încărcarea înregistrărilor. Se pot organiza și vizite la fața locului, de comun acord cu persoana de contact de la domeniul evaluat. *If additional meetings are organized with the representatives of the higher education institution or with other interested parties, they will be organized in online format, as the case may be, by the evaluated institution or by the evaluation team, and the records will be uploaded to ARACIS' cloud. If there are meetings between the members of the evaluation team, it is not necessary to upload the records. On-site visits may also be arranged, in agreement with the contact person of the evaluated domain.*

5

Interval orar/ Hour	Activitate/ Activity		Participanți/ Participants
	IOSUD/ IOSUD evaluation panel	domenii/ domains evaluation panel	
	Înregistrare audio-video/ platforma UTCB MS Teams (Apăsați <a href="#">aici</a> pentru a vă conecta) <i>Audio-video recording/ UTCB MS Teams platform (Click here to join)</i>		<b>- toți membrii echipei de evaluare</b> <i>all evaluation panel members</i> <b>-membrii Comisiei de Etică</b> <i>Ethics Commission members</i>
10:15-11:15	Activități de evaluare <i>Evaluation activities</i> Întâlnire online cu membrii Comisiei pentru Evaluarea și Asigurarea Calității (CEAC)/ Departamentul de asigurare a calității <i>Online meeting with the Commission for Quality Evaluation and Assurance (CEAC) members/ Quality Assurance Department</i> Înregistrare audio-video/ platforma UTCB MS Teams (Apăsați <a href="#">aici</a> pentru a vă conecta) <i>Audio-video recording/ UTCB MS Teams platform (Click here to join)</i>		<b>Comisia de evaluare IOSUD&amp;domenii</b> <i>IOSUD&amp;domains evaluation panel</i> <b>- toți membrii echipei de evaluare</b> <i>all evaluation panel members</i> <b>- reprezentanți ai CEAC/Departament AC</b> <i>representatives of Commission for Quality Evaluation and Assurance (CEAC)/ Quality Assurance Department</i>
11:30-12:30	Activități de evaluare <i>Evaluation activities</i> <b>IOSUD:</b> Întâlnire online a comisiei de evaluare cu studenții doctoranzi <i>IOSUD: Online meeting with PhD students</i> Înregistrare audio-video/ platforma ARACIS ZOOM (Apăsați <a href="#">aici</a> pentru a vă conecta) <i>Audio-video recording/ ARACIS ZOOM platform</i>		<b>Comisia de evaluare IOSUD</b> <i>IOSUD evaluation panel</i> - membrii comisiei de experți evaluatori IOSUD <i>members of IOSUD evaluation panel</i> - studenții doctoranzi <i>PhD students</i>
12:45-13:45		Activități de evaluare <i>Evaluation activities</i> <b>Domenii:</b> Întâlnire online a comisiei de evaluare cu studenții doctoranzi <b>Domain:</b> <i>Online meeting with PhD students</i> Înregistrare audio-video/ platforma ARACIS ZOOM (Apăsați <a href="#">aici</a> pentru a vă conecta - <b>Inginerie civilă și instalații</b> ) (Apăsați <a href="#">aici</a> pentru a vă conecta - <b>Inginerie mecanică</b> ) <i>Audio-video recording/ ARACIS ZOOM platform</i>	<b>Comisia de evaluare domeniu</b> <i>Domain evaluation panel</i> - membrii comisiei de experți evaluatori domeniu <i>members of domain evaluation panel</i> - studenții doctoranzi <i>PhD students</i>

6

Interval orar / Hour	Activitate / Activity		Participanți / Participants
	IOSUD / IOSUD evaluation panel	domenii / domains evaluation panel	
		(Click <a href="#">here</a> to join - Civil and building services engineering)	
14:00-15:00	Activități de evaluare <i>Evaluation activities</i> <a href="#">IOSUD</a> : Întâlnire online a comisiei de evaluare cu reprezentanți ai absolvenților IOSUD <i>IOSUD: Online meeting with IOSUD graduates</i> Înregistrare audio-video/ platforma UTCB MS Teams (Apăsați <a href="#">aici</a> pentru a vă conecta) <i>Audio-video recording/ UTCB MS Teams platform (Click <a href="#">here</a> to join)</i>		<b>Comisia de evaluare IOSUD</b> <i>IOSUD evaluation panel</i> - membrii comisiei de experți evaluatori IOSUD <i>members of IOSUD evaluation panel</i> - reprezentanți ai absolvenților <i>representatives of doctoral graduates</i>
15:15-16:15		Activități de evaluare <i>Evaluation activities</i> <a href="#">Domenii</a> : Întâlnire online a comisiei de evaluare cu reprezentanți ai absolvenților domeniului <i>Domain: Online meeting with graduates for the respective doctoral study domain</i> Înregistrare audio-video/ platforma UTCB MS Teams (Apăsați <a href="#">aici</a> pentru a vă conecta - Inginerie civilă și instalații) (Apăsați <a href="#">aici</a> pentru a vă conecta - Inginerie mecanică) <i>Audio-video recording/ UTCB MS Teams platform (Click <a href="#">here</a> to join - Civil and building services engineering)</i> (Click <a href="#">here</a> to join - Mechanical engineering)	<b>Comisia de evaluare domeniu</b> <i>Domain evaluation panel</i> - membrii comisiei de experți evaluatori domeniu <i>members of domain evaluation panel</i> - reprezentanți ai absolvenților <i>representatives of doctoral graduates</i>
16:15-18:00	Continuarea activităților de evaluare a domeniilor de studii universitare de doctorat și IOSUD <i>Continuation of the doctoral study domain and IOSUD evaluation activities</i>		<b>Comisia de evaluare IOSUD&amp;domenii</b> <i>IOSUD&amp;domains evaluation panel</i>

7

Interval orar / Hour	Activitate / Activity		Participanți / Participants
	IOSUD / IOSUD evaluation panel	domenii / domains evaluation panel	
	Se lucrează separat. <i>Independent evaluation activities.</i>		- la nivel de IOSUD <i>at IOSUD level</i> - la nivel de domenii de doctorat <i>at doctoral study domain level</i>
<b>Miercuri / Wednesday, 14.07.2021</b>			
09:00-10:00		Activități de evaluare <i>Evaluation activities</i> <a href="#">Domenii</a> : Întâlnire online cu directorii/responsabilii centrelor/ laboratoarelor de cercetare aferente domeniilor de studii universitare de doctorat <i>Domains: Online meeting with the Directors/ persons in charge of the research centers/laboratories within the doctoral study domains</i> Înregistrare audio-video/ platforma UTCB MS Teams (Apăsați <a href="#">aici</a> pentru a vă conecta) <i>Audio-video recording/ UTCB MS Teams platform (Click <a href="#">here</a> to join)</i>	<b>Comisia de evaluare domenii</b> <i>Domains evaluation panel</i> - membrii comisiei de experți evaluatori domenii <i>members of domains evaluation panel</i> -directorii centrelor/ laboratoarelor de cercetare <i>directors of research centers/laboratories</i>
10:15-11:15	Activități de evaluare <i>Evaluation activities</i> <a href="#">IOSUD</a> : Întâlnire online cu directorii/responsabilii centrelor/laboratoarelor de cercetare IOSUD <i>IOSUD: Online meeting with the Directors/ persons in charge of the research centers/laboratories within IOSUD</i> Înregistrare audio-video/ platforma UTCB MS Teams (Apăsați <a href="#">aici</a> pentru a vă conecta) <i>Audio-video recording/ UTCB MS Teams platform (Click <a href="#">here</a> to join)</i>		<b>Comisia de evaluare IOSUD</b> <i>IOSUD evaluation panel</i> - membrii comisiei de experți evaluatori IOSUD <i>members of IOSUD evaluation panel</i> - directorii centrelor/ laboratoarelor de cercetare <i>Directors of the research centers/laboratories</i>
11:30-12:30		Activități de evaluare <i>Evaluation activities</i> <a href="#">Domenii</a> :	<b>Comisia de evaluare domenii</b> <i>Domains evaluation panel</i>

8



Interval orar / Hour	Activitate / Activity		Participanți / Participants
	IOSUD / IOSUD evaluation panel	domenii / domains evaluation panel	
		<p>Întâlnire online cu membrii Consiliului școlii doctorale (CSD) în cadrul căreia funcționează domeniile evaluate</p> <p><b>Domains:</b> Online meeting with Doctoral Schools Council (CSD members)</p> <p>Înregistrare audio-video/ platforma UTCB MS Teams (Apăsați aici pentru a vă conecta)</p> <p>Audio-video recording/ UTCB MS Teams platform (Click here to join)</p>	<p>- membrii comisiei de experți evaluatori domenii</p> <p>members of domains evaluation panel</p> <p>-membrii CSD</p> <p>CSD's members</p>
12:45-13:45	<p>Activități de evaluare</p> <p>Evaluation activities</p> <p><b>IOSUD:</b> Întâlnire cu membrii Consiliului Studiilor Universitare de Doctorat al IOSUD</p> <p><b>IOSUD:</b> Online meeting with Doctoral University Studies Council (CSUD) members</p> <p>Înregistrare audio-video/ platforma UTCB MS Teams (Apăsați aici pentru a vă conecta)</p> <p>Audio-video recording/ UTCB MS Teams platform (Click here to join)</p>		<p>Comisia de evaluare IOSUD</p> <p>IOSUD evaluation panel</p> <p>- membrii comisiei de experți evaluatori IOSUD</p> <p>members of IOSUD evaluation panel</p> <p>- membrii CSUD</p> <p>CSUD's members</p>
14:00-15:00		<p>Activități de evaluare</p> <p>Evaluation activities</p> <p><b>Domeniu:</b> Întâlnire online a comisiei de evaluare cu reprezentanți ai angajatorilor absolvenților domeniului</p> <p><b>Domain:</b> Online meeting with employers of Doctoral graduates in the domain</p> <p>Înregistrare audio-video/ platforma UTCB MS Teams (Apăsați aici pentru a vă conecta - Inginerie civilă și instalații)</p> <p>(Apăsați aici pentru a vă conecta - Inginerie mecanică)</p> <p>Audio-video recording/ UTCB MS Teams platform</p>	<p>Comisia de evaluare domeniu</p> <p>Domain evaluation panel</p> <p>- membrii comisiei de experți evaluatori domeniu</p> <p>members of domain evaluation panel</p> <p>- reprezentanți ai angajatorilor employers' representatives</p>

9

Interval orar / Hour	Activitate / Activity		Participanți / Participants
	IOSUD / IOSUD evaluation panel	domenii / domains evaluation panel	
		<p>(Click here to join - Civil and building services engineering)</p> <p>(Click here to join - Mechanical engineering)</p>	
15:15-16:15	<p>Activități de evaluare</p> <p>Evaluation activities</p> <p><b>IOSUD:</b> Întâlnire online a comisiei de evaluare cu reprezentanți ai angajatorilor absolvenților</p> <p><b>IOSUD:</b> Online meeting with employers of doctoral graduates</p> <p>Înregistrare audio-video/ platforma UTCB MS Teams (Apăsați aici pentru a vă conecta)</p> <p>Audio-video recording/ UTCB MS Teams platform (Click here to join)</p>		<p>Comisia de evaluare IOSUD</p> <p>IOSUD evaluation panel</p> <p>- membrii comisiei de experți evaluatori IOSUD</p> <p>members of IOSUD evaluation panel</p> <p>- reprezentanți ai angajatorilor employers' representatives</p>
16:30-17:30	<p>Întâlnire tehnică online, pentru identificarea aspectelor specifice care trebuie clarificate, dacă este cazul, pe parcursul vizitei la fața locului</p> <p>Online technical meeting to identify specific issues that need to be clarified, if necessary, during the on-site visit</p> <p>Înregistrare audio-video/ platforma ARACIS ZOOM (Apăsați aici pentru a vă conecta)</p> <p>Audio-video recording/ ARACIS ZOOM platform (Click here to join)</p>		<p>Comisia de evaluare IOSUD&amp;domenii</p> <p>IOSUD&amp;domains evaluation panel</p> <p>- toți membrii echipei de vizită</p> <p>all evaluation panel members</p>
<b>Joi / Thursday, 15.07.2021</b>			
09:00-18:00	<p>Reuniuni de lucru față în față<sup>4</sup>, vizitarea bazei materiale didactice și de cercetare</p> <p>Face-to-face working meetings, visiting the educational and research infrastructure</p> <p>Vizită in situ la UNIVERSITATE</p> <p>Site visit to the university</p>		<p>- directorul de misiune și coordonatorul, un student doctorand evaluator</p> <p>the Evaluation Director and the coordinator of the IOSUD evaluation panel, one student</p> <p>- reprezentanți ai universității</p> <p>university's representatives</p>

<sup>4</sup> Experții evaluatori la nivelul domeniilor de studii universitare de doctorat pot stabili independent programul vizitei la fața locului, de comun acord cu persoana de contact de la domeniul evaluat și respectând programul întâlnirilor comune cu restul membrilor echipei de evaluare. The evaluators at doctoral study domain level can independently establish the program of the on-site visit, in agreement with the contact person for the evaluated domain and respecting the schedule of joint meetings with the rest of the evaluation panel members.

10

Intervalul orar/ Hour	Activitate/ Activity		Participanți/ Participants
	IOSUD/ IOSUD evaluation panel	domenii/ domains evaluation panel	
<b>Vineri/ Friday, 16.07.2021</b>			
09:00-11:30	Finalizarea documentelor <i>Completion of the evaluation documents</i> Se lucrează separat. <i>Independent evaluation activities.</i>		Comisia de evaluare IOSUD&domenii <i>IOSUD&amp;domains evaluation panel</i> - la nivel de IOSUD <i>at IOSUD level</i> - la nivel de domenii de doctorat <i>at doctoral study domain level</i>
11:45-12:45	Întâlnire online pentru concluzii <i>Online meeting for conclusions</i> Înregistrare audio-video/ platforma ARACIS ZOOM (Apăsați <a href="#">aici</a> pentru a vă conecta) <i>Audio-video recording/ ARACIS ZOOM platform (Click <a href="#">here</a> to join)</i>		Comisia de evaluare IOSUD&domenii <i>IOSUD&amp;domains evaluation panel</i> - <b>toți membrii echipei de evaluare</b> <i>all evaluation panel members</i>
13:00-14:00	Întâlnire finală online în vederea prezentării principalelor constatări rezultate în urma evaluării la nivel de domenii de doctorat și IOSUD și a recomandărilor de îmbunătățire a calității <i>Meeting with representatives of the institution under review to discuss on the conclusions of the evaluation process and the main recommendations</i> Înregistrare audio-video/ platforma UTCB MS Teams (Apăsați <a href="#">aici</a> pentru a vă conecta) <i>Audio-video recording/ UTCB MS Teams platform (Click <a href="#">here</a> to join)</i>		Comisia de evaluare IOSUD&domenii <i>IOSUD&amp;domains evaluation panel</i> - <b>toți membrii echipei de evaluare</b> <i>all evaluation panel members</i> - reprezentanții universității <i>university's representatives</i>