

The External Evaluation Report of a Doctoral Study Domain

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I. Introduction¹

In this chapter, the following shall be summarized:

- the context in which this external evaluation report was drafted (**the type of evaluation, the period of the evaluation visit, the composition of the Experts Committee** etc.);
- details about the doctoral school(s) of which the doctoral domain under review is part (number of doctoral advisors, number of students, institutional context, short history etc.);
- details about the doctoral study domain under review (number of students, institutional context, short history etc.).

The evaluation of the doctoral field Energy Engineering at the University of Oradea (UO) by Prof. Constatin Vertan (Universitatea Politehnica din București) as a coordinator, Prof. Danijel TOPIC (J.J. Strossmayer University of Osijek, Croatia) as the international expert, and Alexandru-Mihai CHIUDA as a student member was performed. The period of the evaluation was from 15th of the June by the 16th of June 2023.

General information according to Self-Assessment Document

The University of Oradea is a higher education institution accredited to organize doctoral studies in 18 doctoral fields, organized in 7 Doctoral Schools, both in the form of full-time education and in the part-time form.

Doctoral study programs operate in accordance with national legislation and meet the quality criteria imposed by national regulations. Details regarding the organization of doctoral university studies can be viewed by accessing the page <https://doctorat.uoradea.ro/ro/>, and the related statistical situations are presented in this Annual Report of the director of the C.S.U.D., for the year 2020.

Currently, within the University of Oradea there are 7 Doctoral Schools within the structure of the faculties that manage the 18 doctoral fields, as follows:

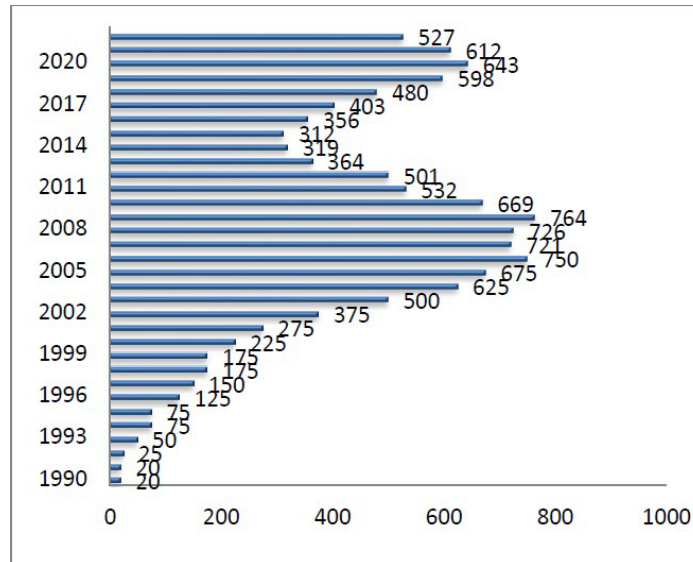
- **The Doctoral School of Humanities and Arts** - doctoral fields Philology and Theology, within the Faculty of Letters;

¹ Each time when applicable the information shall be presented gender-wise.

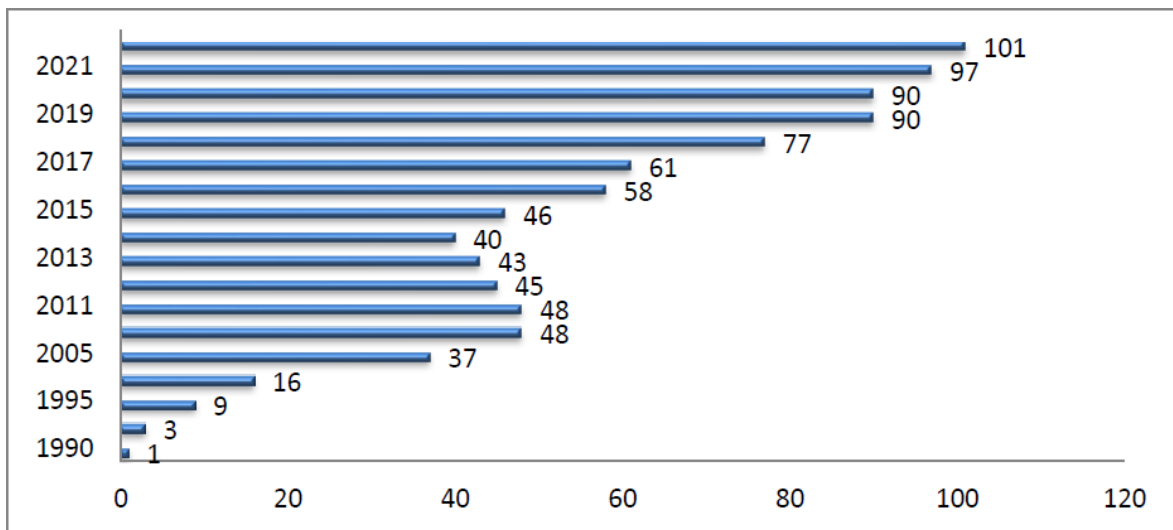


- **The Doctoral School of Geography** - PhD field Geography, within the Faculty of Geography, Tourism and Sports;
- **The Doctoral School of History** - the doctoral field of History, within the Faculty of History, International Relations, Political Sciences and Communication Sciences;
- **The Doctoral School of Sociology** - doctoral field of Sociology, within the Faculty of Socio-Human Sciences;
- **The Doctoral School of Biomedical Sciences** - doctoral fields of Biology, Pharmacy and Medicine, within the Faculty of Medicine and Pharmacy;
- **The Doctoral School of Economic Sciences** - Doctoral fields Business Administration, Economics and Finance, within the Faculty of Economic Sciences;
- **The Doctoral School of Engineering Sciences**, in the doctorate fields of Agronomy, Electrical Engineering, Electronic Engineering, Telecommunications and Informational Technologies, Energetic Engineering, Industrial Engineering, Engineering and Management in Mathematics, within the Faculty of Managerial and Technological Engineering.

Evolution in the number of doctoral students are presented in the following figure:



Evolution in the number of doctoral supervisors are presented in the following figure:





The doctoral field ENERGY ENGINEERING was established starting with 1994 in the same time with the approval of technical sciences doctoral studies (OM 5363/1994 - **Annex II.A.c.**). The following doctoral supervisors have been active over time:

- Prof.univ.dr.ing. **Ioan FELEA** (OM no.5371/10.02.1994 - associate)
- Prof.univ.dr.ing. **Gheorghe-Constantin IONESCU** (OMECT no. 1805/20.08.2007 - tenured),
- Assoc. prof. PhD **Gabriel Valentin BENDEA** (OME no. 6485/29.12.2022 - tenured).

Currently (2022-2023), at the Doctoral School of Engineering Sciences, Doctoral field of Energy Engineering there are enrolled 6 PhD students. Between 2017-2022, 6 doctoral students have publicly defended their doctoral thesis, and obtained the scientific title of doctor in Energy Engineering, being confirmed by CNATDCU.

II. Methods used

This chapter will contain the methods and tools used in the external evaluation process, before and during the evaluation visit, including at least:

- The analysis of the internal evaluation report of the doctoral study domain under review and its Annexes;
 - The analysis of documents made available by the IOSUD, in physical format, during the evaluation visit (if such documents have been requested);
 - The analysis of documents, data and information available on the IOSUD/Doctoral School(s) website, in electronic format;
 - Visiting the buildings included in the institution's property, comprising (indicative and non-exhaustive list, which shall be changed according to the context):
 - classrooms;
 - laboratories;
 - the institution's library;
 - research centers;
 - the Career Counselling and Guidance Center;
 - lecture halls for students;
 - the student residences;
 - the student cafeteria;
 - sports ground etc.;
 - Meeting/discussions with doctoral students in the doctoral study domain under review;
 - Meeting/Discussions with the graduates of the doctoral study domain under review;
 - Meeting/Discussions with employers of the graduates in the doctoral study domain under review;
 - Meeting/Discussions with the school officials of the Doctoral School(s) in which the doctoral study domain under review is operating;
 - Meeting/Discussions with the doctoral advisors in the doctoral study domain under review;
 - Meeting/discussions with the representatives of the various structures of the IOSUD/Doctoral School(s) in which the doctoral study domain under review is operating;



- The Council of the Doctoral School, the University Senate, the Board of Directors, the Quality Assessment and Assurance Commission, the Quality Assurance Department, the Ethics Commission (including with the student representatives of these structures);
- the Career Counselling and Guidance Center;
- student organizations;
- secretariats;
- various departments/administrative offices (Social/Student residences-Cafeterias etc.);
- Application of questionnaires to doctoral students or academic staff in the doctoral study domain under review.

For the evaluation process the following methods and tools have been used:

- The analysis of the INTERNAL EVALUATION REPORT and its Annexes;
- The analysis of documents, data and information available on the IOSUD/Doctoral School(s) website, in electronic format;
- Meeting of evaluators;
- Panel evaluators` Meeting with the contact person for the doctoral study domain under review and the team who drafted the internal evaluation report (University's representatives)
- Panel evaluators` meeting with representatives of the institution and of the Council for Academic Doctoral Studies (CSUD) and with Doctoral Schools Council (CSD) members
- Panel evaluators` meeting with the members of the Ethics Commission
- Panel evaluators` meeting with the Commission for Quality Evaluation and Assurance (CEAC) members / Quality Assurance Department
- Visiting the educational and research infrastructure
- Panel evaluators` meeting with the academic staff corresponding to the doctoral study domain
- Panel evaluators` meeting with the Directors/ persons in charge of the research centers/laboratories within the doctoral study domain
- Panel evaluators` meeting with the doctoral students corresponding to the doctoral study domain
- Panel evaluators` meeting with graduates corresponding to the doctoral study domain
- Panel evaluators` technical meeting
- Panel evaluators` meeting with the contact person for the doctoral study domain under review and the team who drafted the internal evaluation report
- Panel evaluators` meeting with graduates corresponding to the doctoral study domain
- Carrying out the specific activities of the panel evaluators and making entries in the draft of the external evaluation report.

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.

- 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

Recommendations:

The indicator is fulfilled

At the level of IOSUD-University of Oradea there are specific regulations for the organization and development of doctoral studies, these being developed in accordance with the provisions of national legislation and are applied at both the level of IOSUD and of the doctoral schools.

The internal regulations that underlie the organization and development of activities within the doctoral studies are:

- **Regulations for the organization and conduct of the doctoral and postdoctoral studies (Annex II.A.1)**, the variant in force at the time of the evaluation was approved by the Senate Decision no. 27 of 28.01.2021 (<https://www.uoradea.ro/display22980>)
- **The regulation for the organization and development of doctoral studies at the level of the Doctoral School of Engineering Sciences** was adopted by CSUD Decision and is available for consultation on the website of the Doctoral School (<https://webcache.googleusercontent.com/search?q=cache:ABjB462LBlkJ:https://doctorat.uoradea.ro/ro/documente/reglementari/reglementari-interne+&cd=1&hl=ro&ct=clnk&gl=ro>), **Annex II.A.1.1**
- **The methodology of organizing the elections and appointing the members of the Council and the director of the Doctoral School from I.O.S.U.D.** - The University of Oradea, in force at the date of the internal evaluation, was adopted by the Decision of the University Senate number

11 of 26.10.2020 Appendix 13, being available for consultation on the IOSUD website (<https://www.uoradea.ro/display12788>) . The documents proving the conduct of the elections of the Doctoral Schools Councils and the elections (**Annex II.A2**)

- **The methodology for organizing and conducting the competition for admission to doctoral studies** at the level of IOSUD_UO, in force at the time of the internal evaluation, was adopted by the Decision of the University Senate number 16 of 25.03.2021, being available for consultation on the website of IOSUD (<https://cloud.uoradea.ro/index.php/s/FKi3fGrijjPBJ4z#pdfviewer>), **Annex II.A.4**
- The operational procedure regarding the recognition of the doctoral degree and the doctoral degree in sciences or in a professional field, obtained abroad, in force at the date of the internal evaluation, was adopted by the Decision of the University Senate number 19 of 27.03.2017, being available for consultation on the IOSUD website (<https://www.uoradea.ro/display12986>), **Annex II.A.7**
- Regarding the organization of meetings at the level of the Doctoral School of Engineering Sciences, they are held as many times as necessary, but at least three times a year. The supporting documents are presented in **Annex II.A.9.1**.
- The Doctoral Studies Contract - is Annex 1 to ROFSUD (<https://www.uoradea.ro/display17406>), for example, a model is presented in **Annex II.A.10**.
- Internal procedures for the analysis and approval of proposals on the topic of doctoral university study programs. (**Annex II.A. 1**)
- The methodology regarding the admission and schooling of Romanians everywhere for doctoral studies starting with the academic year 2021 - 2022, in force at the date of the internal evaluation, was adopted by the Decision of the University Senate number 16 of 25.03.2021, being available for consultation on IOSUD website (<https://doctorat.uoradea.ro/ro/>), respectively in **Annex II.A.5**;
- The methodology regarding the admission and schooling of foreign citizens starting with the academic year 2021-2022 in force at the date of the internal evaluation, was adopted by the Decision of the University Senate number 16 of 25.03.2021, being available for consultation on the IOSUD website (<https://doctorat.uoradea.ro/ro/>), respectively in **Annex II.A.6**;
- The operational procedure regarding the recognition of the doctoral degree in sciences or in a professional field, obtained abroad, in force at the date of the internal evaluation, was adopted by the Decision of the University Senate number 19 of 27.03.2017, being available for consultation on the IOSUD website (<https://www.uoradea.ro/display12986>), respectively in **Annex II.A.7**;
- The operational procedure regarding the automatic recognition by the University of Oradea of the quality of doctoral supervisor obtained in university educational institutions accredited from abroad, in force at the date of the internal evaluation, was adopted by the Decision of the University Senate number 19 of 27.03.2017, being available for consultation on the IOSUD website (<https://www.uoradea.ro/display12989>), respectively in **Annex II.A.8**;
- Regarding the organization of the meetings at the level of the Doctoral School of ENGINEERING SCIENCES, they take place as many times as necessary, but at least three times a year. The supporting documents are presented in **Annex II.A.9.1**
- The Doctoral Studies Contract is Annex 1 to ROFSUD (<https://www.uoradea.ro/display17406>), for example, a model is presented in Annex II.A.10.
- Internal procedures for analysis and approval of proposals on the topic of doctoral university study programs (Regulations of the ENGINEERING SCIENCES Doctoral School) (**Annex II.A.1**)



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.*

- *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*

Recommendations:

The indicator is fulfilled.

According to art.17, par. 5 of Government Decision of the single doctoral school within IOSUD-UO (681/2011 The regulation) establishes mandatory criteria, procedures and standards regarding the following aspects:

- Regulation on granting and revoking the membership of Doctoral Schools, approved by Decision Senate 33 of 26.03.2018 **Annex II.A.15** (<https://www.uoradea.ro/display16171>) - defines:
 - the acceptance of new doctoral supervising members
 - doctoral supervisor's withdrawn as a member of the doctoral school
- Regulation on the organization and conduct of university studies, doctorate and postdoctoral programs **Annex II.A.1.** (<https://www.uoradea.ro/display22980>); defines:
 - the mechanisms by which decisions are taken on the appropriateness, structure and content of the training program based on advanced university studies
 - the procedures for changing the doctoral supervisor of a certain doctoral student and the procedures for mediating conflicts
 - the conditions under which the doctoral program can be interrupted
 - the sanctions in case of non-compliance with the quality or professional ethics standards
 - ensuring access to research resources
- Code of Ethics and University Ethics of the University of Oradea (<https://www.uoradea.ro/display23004> – **Annex II.A.17.**) - defines:
 - the ways to prevent fraud in scientific research, including plagiarism
- the attendance obligations of the doctoral students, according to a methodology elaborated by the Ministry of National Education, are established at the level of each Doctoral School **ENGINEERING SCIENCES (Annex II.A.1):**
 - The doctoral student in the full-time form of education must allocate 40 hours per week in his/her doctoral program, and the doctoral student in the part-time form of education must devote at least 15 hours per week, hours carried out within the IOSUD University of Oradea (teaching activities, study programs, doctoral school, research centers, and research teams, etc.).
 - (4) The activities related to the doctoral programme and the number of hours allocated to each of them are established by the doctoral supervisor in compliance with the doctoral school regulations.

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.*

- *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*

Recommendations:

The indicator is fulfilled.

PhD students enrolled at IOSUD_UO in the form of education without tuition are funded from the budget for the maximum duration of a doctoral study cycle (3-4 years), and the university has mechanisms to verify this condition (UNIWEB Platform). The results obtained by the doctoral student during schooling are entered in the individual training program (Annex II.A.18) and in the Matriculation Register.

At the level of the University and IOSUD UO there is also implemented (the interface for students is available at <https://studinfo.uoradea.ro/>), the Uniweb platform (<https://uniweb.uoradea.ro/>) which provides the module management, monitoring and computerization of students, including doctoral students.

The data from the applicants' files for admission are entered in this program and following the selection process, the admitted candidates are registered with IOSUD UO. This program has a module where statistical reports of doctoral students can be generated, a fee module where the tax situation of doctoral students is highlighted.

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.*

- *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*

Recommendations:

The indicator is fulfilled.

IOSUD The University of Oradea **uses** on a contract basis **the anti-plagiarism system** provided by SC SISTEM ANTIPLAGIAT PRIN INTERNET SRL through the online platform <https://www.sistemantiplagiat.ro> (Annex II.A.19.).

According to the provisions of the Operational Procedure regarding the evaluation of doctoral students (**Annex II.C.10**) (<https://www.uoradea.ro/display17187>), art.8.2.3.18., **each doctoral thesis to be sustained publicly will be accompanied by both the Antiplagiarism Report** generated by the Sistemantiplagiat software .ro as well as the Resolution of the doctoral supervisor on the similarity report (**Annex 13 of the OP**), the opinion of the doctoral school on the anti-plagiarism verification (**Annex 12 of the OP**) and the Declaration of authenticity of the doctoral thesis (**Annex 18 of the OP**), assumed by the doctoral student and the scientific coordinator.

Standard A.1.3. The IOSUD makes sure that financial resources are used optimally, and the revenues obtained from doctoral studies are supplemented through additional funding besides governmental funding.

**general description of the standard analysis.*

Performance Indicator A.1.3.1. Existence of at least one research or institutional / human resources development grant under implementation at the time of submission of the internal evaluation file, per doctoral study domain under evaluation, or existence of at least 2 research or institutional development / human resources grant for the doctoral study domain, obtained by doctoral thesis advisors operating in the evaluated domain within the past 5 years. The grants address relevant themes for the respective domain and, as a rule, are engaging doctoral students.

- 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

Recommendations:

The indicator is fulfilled.

Within the Doctoral School of Energy Engineering domain, in the considered evaluation interval, the projects presented in the following table were implemented:

	Grant/Project	Responsible	Period of implementation
1.	"Innovative high-efficiency biomass energy recovery system - SIVEBER", project code: SMIS 2014+: 123392, Competitiveness Operational Program 2014-2020, beneficiaries: SC Climarol Prest SRL and the University of Oradea, total budget: 19,306,580, 98 lei, of which 1,485,814.41 lei related to the University of Oradea (RESEARCH GRANT)	Assoc. Prof. Phd Gabriel Bendea	2021-2023
2.	POCU project: SmartDoct-high quality programs for PhD students and post-doctoral researchers of the University of Oradea to increase the relevance of research and innovation in the context of the regional economy, total project value: 6,319,869.60 lei, funding entity: European Union (Institutional development grants)	Prof.univ.dr. Adrian Hatos	2019-2021
3.	Title "ESTABLISHMENT OF BIHOR SCIENCE AND TECHNOLOGICAL PARK" within the Regional Operational Program 2014-2020, Priority Axis 1 "Promotion of technology transfer", Investment Priority 1.1, Operation B, Call for projects no. POR / 2018/1 / 1.1.B. / 1. (Institutional development grants)	University of Oradea	2014-2020
4.	Title "DEVELOPMENT OF THE TECHNOLOGICAL TRANSFER CENTER OF THE UNIVERSITY OF ORADEA - SMART INDUSTRIES" within the Regional Operational Program 2014-2020, Priority Axis 1 "Promotion of technology transfer", Investment priority 1.1. A, Call for projects POR / 439/1/1 / Increasing innovation in companies by supporting (Institutional development grants)	University of Oradea	2014-2020
5.	"IMPLEMENTATION OF DIGITAL TECHNOLOGIES IN THE UNIVERSITY OF ORADEA (DIGITAL UO)", financed by the National Recovery and Resilience Plan (PNRR)	University of Oradea	2022-2025
6.	"EU GREEN - EUROPEAN UNIVERSITIES ALLIANCE FOR SUSTAINABILITY: GROWTH, INCLUSIVE EDUCATION AND ENVIRONMENT", funded by the European Education and Culture Agency (EACEA)	University of Oradea	2022-2026

Performance Indicator *A.1.3.2. The percentage of doctoral students active at the time of the evaluation, who for at least six months receive additional funding sources besides government funding, through scholarships awarded by individual persons or by legal entities, or who are financially supported through research or institutional / human resources development grants is not less than 20%.

- 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

Recommendations:

The indicator is fulfilled.

Within the Doctoral School of Energy Engineering domain, on the date of preparation of Internal Evaluation Report there was 6 doctoral students, from which 6 students benefited/benefit from other source of funding for a period of at least six months.

Centralised situation of PhD students who have been/are the beneficiary of other financial sources for a minimum period of 6 months is presented in the following table:

Nr. crt.	PhD student	Enrollment year	Type of funding source *	Granting period
2018-2019 - 1				
1.	Kovacs P. Zoltan	28.09.2018	Own Income Exchange - UO	Oct. 2018-Sept. 2019
2019-2020 - 2				
2.	Szabo Emeric Remus	02.10.2017	Project scholarship SMARTDOCT	14 Oct. 2019-13 Oct. 2020
3.	Hoduț Nicolae Ciprian	28.09.2018	Project scholarship SMARTDOCT	14 Oct. 2019-13 Oct. 2020
2020-2021-1				
Nr. crt.	PhD student	Enrollment year	Type of funding source *	Granting period
4.	Negrea Daniela-Tabita	01.10.2020	Own Income Exchange - UO	Oct. 2020-Sept. 2021
2021-2022-1				
5.	Negrea Daniela-Tabita	01.10.2020	Own Income Exchange - UO	Oct. 2021-Sept. 2022
2022-2023-1				
6.	Sărăcuț-Ardelean M.D.Andrei Florin	01.10.2020	Own Income Exchange - UO	Oct. 2022-Sept. 2023

Performance Indicator *A.1.3.3.² *At least 10% of the total amount of doctoral grants obtained by the university through institutional contracts and of tuition fees collected from the doctoral students enrolled in the paid tuition system is used to reimburse professional training expenses of doctoral students (attending conferences, summer schools, training, programs abroad, publication of specialty papers or other specific forms of dissemination 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

Recommendations:

The indicator is partially fulfilled.

The amount of doctoral grants obtained by the university through institutional contracts and of tuition fees collected from the doctoral students enrolled in the paid tuition system is centralized collected at the university level. The total amount collected for period 2015-2020 in the following table is presented.

Revenue table for the doctoral field evaluated for the last five years (Oct. 1, 2015 - Sept. 30, 2020)

An univ.	Nr. studenți bugetați	Nr. studenți cu taxa	Nr. total de studenți	Valoare grant doctoral	Taxa de studii	Venituri de la buget	Venituri din taxe	Total
2017 - 2018	4	8	12	25.300	3.900	101.200	31.200	132.400
2018 - 2019	2	8	10	25.300	4.500	50.600	36.000	86.600
2019 - 2020	2	7	9	29.000	4.500	58.000	31.500	89.500
2020-2021	1	11	12	29.000	4.500	29.000	49.500	78.500
2021-2022	1	10	11	30.500	4.500	30.500	45.000	75.500
Total						269.300	193.200	462.500

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*

² The indicators marked with an asterisk (*) hold a special status, referring exclusively to the evaluation of doctoral studies domains, as per Article 12 from the annex No.1 of the Order of the minister of education No. 3651/12.04.2021 approving the Methodology for evaluating university doctoral studies and the system of criteria, standards and performance indicators used in the evaluation. In case they are not met, the Agency extends a period of maximum 3 years to IOSUD to correct the respective deficiencies.



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.

- 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

Recommendations:

The indicator is fulfilled.

The spaces and material endowment assigned to the doctoral field Energy engineering allow the realization of the research activities, in the evaluated field, in accordance with the assumed mission and objectives.

The following laboratories are available for the PhD students in the domain of Energy Engineering:

- ADVANCED MATERIALS RESEARCH INFRASTRUCTURE - SMARTMAT (<https://eeris.eu/ERIF-2000-000G-0383>)
- CENTER FOR RESEARCH AND ENGINEERING TECHNOLOGY IN THE CONVERSION OF ELECTROMAGNETIC ENERGY - CCITCEE (<https://eeris.eu/ERIF-2000-000P-0492>)
- ENGINEERING AND MANAGEMENT ECOSYSTEMS-IMPACT AND DEVELOPMENT (<https://eeris.eu/ERIF-2000-000F-0554>)
- RESEARCH CENTER FOR ENERGY PROCESSES MANAGEMENT (<https://eeris.eu/ERIF-2000-000M-0557>)
- Laboratorul de Audit Electroenergetic
- Laboratorul de Diagnoză Tehnică a Mașinilor și Echipamentelor

At the level of the faculties which manages the doctoral field Energy Engineering there is an internally certified research centers. Its members are both doctoral coordinators, teachers, members of the steering committees, and doctoral students. Details of that establishment, the latest Activity Report are set out in Annex II.A.22.

The available research infrastructure enables the research activities in the Energy Engineering domain to be carried out, in line with the assumed mission and objectives.

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. *Minimum three doctoral thesis advisors within that doctoral domain, and at least 50% of them (but no less than three) meet the minimum standards of the National Council for Attestation of University Degrees, Diplomas and Certificates (CNATDCU) in force at the time when the evaluation is carried out, which standards are required and mandatory for obtaining the enabling certification.*



- 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

Recommendations:

The indicator is fulfilled.

The doctoral field Energy Engineering has been operating at IOSUD UO since 2002, within which the following doctoral supervisors have been active over time:

- Prof.univ.dr.ing. IOAN FELEA
- Prof.univ.dr.ing. GHEORGHE IONESCU
- Assoc. Prof. PhD GABRIEL BENDEA

At the level of 2022/2023 academic year, according to the State of functions (Annex II.A.24.), the activity at doctoral university studies is supported by teaching staff who meet the legal conditions, have the minimum teaching title of lecturer doctor and are specialists in the field of doctoral topic being supervised (in the case of members of the supervising committees), and have the status of doctoral supervisor obtained by Ministerial Order (in the case of doctoral supervisors).

Minimum three doctoral thesis supervisors within Energy Engineering domain are needed. In total there is a 3 PhD supervisors and all three supervisors meet the minimum CNATDCU standards **and this criteria is fulfilled.**

Performance Indicator *A.3.1.2. *At least 50% of all doctoral advisors have a full-time employment contract for an indefinite period with the IOSUD.*

- 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

Recommendations:

The indicator is fulfilled.

Within the Energy Engineering doctoral field a number of 2 doctoral supervisors are holders out of a total number of 3 doctoral supervisors which means a percentage of 66%.

Annex II.A.26. contains the certificates signed by the IOSUD leader for the teaching doctoral supervisors.

Information on the situation of guiding commission members within the doctoral field Energy engineering year 2020-2021 are in Annex II.A.27..

Performance Indicator A.3.1.3. *The study subjects in the education program based on advanced higher education studies pertaining to the doctoral domain are taught by teaching staff or researchers who are doctoral thesis advisors / certified doctoral thesis advisors, professors / CS I or lecturer / CS II, with proved expertise in the field of the study subjects they teach, or other specialists in the field who meet the standards established by the institution in relation with the aforementioned teaching and research functions, as provided by the law.*

- 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

Recommendations:

The indicator is fulfilled.

The disciplines in the training program based on advanced university studies related to the field are held by teachers who have the quality of doctoral / qualified supervisor, professor, or associate professor with proven expertise in the field of the subjects taught.

Table with teachers who support disciplines in the training program based on advanced university studies are presented in the following table:

Nr.	Name first name teacher / researcher	Teaching degree *	Discipline taught (Annex II.B.2.)	CV
1.	Felea Ioan	Profesor univ.	Metodologia cercetării științifice în domeniul științe ingineresti / Scientific research methodology in the field of engineering sciences	Annex II.A.28
2.	Felea Ioan	Profesor univ.	Etică și integritate academică în domeniul științe ingineresti / Ethics and academic integrity in the field of engineering sciences	Annex II.A.28
3.	Ioan Felea	Prof.univ.dr.ing.	Gestiunea energiei / Energy management	Annex II.A.28
4.	Ioan Felea	Prof.univ.dr.ing	Inginerie sistemelor energetice / Energy systems engineering	Annex II.A.28
5.	Ionescu Gheorghe	Profesor univ.	Energii neconvenționale folosite în construcții / Unconventional energies used in construction	Annex II.A.28
6.	Ionescu Gheorghe	Profesor univ.	Instalații eficiente în clădiri / Efficient installations in buildings	Annex II.A.28
7.	Bendea Gabriel	Conf.univ.dr.ing	Tehnologii eficiente de conversie a energiei / Efficient energy conversion technologies	Annex II.A.28

Performance Indicator *A.3.1.4. The percentage of doctoral thesis advisors who concomitantly coordinate more than 8 doctoral students, but no more than 12, who are themselves studying in doctoral programs³ does not exceed 20%.

³ 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



- 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

Recommendations:

The indicator is fulfilled.

Therefore, out of the total of 3 doctoral supervisors in the field ENERGY ENGINEERING, there are no supervisors have more than 8 doctoral students in internship and extension (cf. art. 39 para. 3 GD 681/2011) but not more than 12.

Standard A.3.2. The Doctoral advisors within the domain are carrying out a scientific activity visible at international level.

**general description of the standard analysis.*

Performance Indicator A.3.2.1. *At least 50% of the doctoral thesis advisors in the evaluated domain have at least 5 Web of Science- or ERIH-indexed publications in magazines of impact, or other achievements of relevant significance for that domain, including international-level contributions that indicate progress in scientific research - development - innovation for the evaluated domain. The aforementioned doctoral thesis advisors enjoy international awareness within the past five years, consisting of: membership on scientific boards of international publications and conferences; membership on boards of international professional associations; guests in conferences or expert groups working abroad, or membership on doctoral defense commissions at universities abroad or co-leading with universities abroad. For Arts and Sports and Physical Education Sciences, doctoral thesis advisors shall prove their international visibility within the past five years by their membership on the boards of professional associations, membership in organizing committees of arts events and international competitions, membership on juries or umpire teams in artistic events or international competitions.*

- 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

Recommendations:

The indicator is fulfilled.

Out of the total of 3 PhD supervisors 3 of them (100 %) fulfill the conditions regarding the publications in Web of Science and regarding the other achievements of relevant significance for Energy Engineering field. 3 doctoral supervisors from the total of 3 supervisors prove at least 2 mentions that highlight the international visibility they enjoy, through the elements specified in the second part of this indicator

The Centralizers containing the contributions reported by the doctoral supervisors thus selected are presented in **Annex II.A.29**.

Performance Indicator *A.3.2.2. *At least 50% of the doctoral thesis advisors in a specific doctoral study domain continue to be active in their scientific field, and acquire at least 25% of the score requested by*

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.

the minimal CNATDCU standards in force at the time of the evaluation, which are required and mandatory for acquiring their enabling certificate, based on their scientific results within the past five years.

- 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

Recommendations:

The indicator is fulfilled.

According to the data presented in the self-evaluation report, out of a total of 3 PhD supervisors affiliated at the time of evaluation, 3 PhD supervisors (100%) meet the required score for this indicator based on scientific results from the last 5 years. List of PhD supervisors who meet the requirements in the following table are presented.

Nr	Name and surname	Score achieved between 2016-2020	Minimum score	Percent aje	Proof of obtaining at least 25% of the score required by the CNATDCU minimum standards in force at the date of assessment
Doctoral field Energy Engineering					
1.	Prof.univ.dr. Felea Ioan	522,6	600	87%	Yes
2.	Prof.univ.dr. Ionescu Gheorghe Constantin	517,22	600	86%	Yes
3.	Assoc. Prof. PhD Bendea Gabriel	432,25	600	72%	Yes

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.*

Standard B.1.1. The institution organizing doctoral studies has the capacity to attract candidates from outside the higher education institution or a number of candidates exceeding the number of seats available.

**general description of the standard analysis.*

Performance Indicator *B.1.1.1. *The ratio between the number of graduates of masters' programs of other higher education institutions, national or foreign, who have enrolled for the doctoral admission contest within the past five years and the number of seats funded by the state budget, put out through contest within the doctoral domain is at least 0.2 or the ratio between the number of candidates within the past five years and the number of seats funded by the state budget put out through contest within the doctoral studies domain is at least 1,2.*



- 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

Recommendations:

The indicator is fulfilled.

For the field of Energy Engineering, the statistical data for the 2016-2020 period are given in the following Table:

Nr. grants/ candidates	Academic year/				
	2017- 2018	2018- 2019	2019- 2020	2020- 2021	2021- 2022
Nr. Doctoral grants	1	0	1	0	0
No candidates registered for the admission exam, of which:	6	4	2	2	1
- graduates of master's degree programs conducted outside IOSUD	1	0	0	0	1
- graduates of master's degree programs conducted in IOSUD	5	4	2	2	0
Nr. Admitted candidates	6	4	2	2	1
Report on the number of master's degree graduates of other higher education institutions in the country or abroad who have registered for the competition for admission to doctoral studies and the number of places financed from the state budget put up for competition	1/1	0	0/1	0	1/0

The report shows the number of master's degree graduates of other higher education institutions in the country or abroad who have registered for the admission competition for doctoral studies and the number of places financed from the state budget put up for competition at the admissions 2015- 2019 for the doctoral field is $2/2 = 1$.

Standard B.1.2 Candidates admitted to doctoral studies demonstrate academic, research and professional performance.

**general description of the standard analysis.*

Performance Indicator *B.1.2.1. 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.

- 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

Recommendations:

The indicator is fulfilled.



In accordance with the Methodology for organizing and conducting the competition for admission to doctoral studies at the level of the DOCTORAL SCHOOL OF ENGINEERING SCIENCES, Annex II.A.4.1., Admission to doctoral study programs is based on criteria of selection that include:

- Interview
- Examination:
 - **Criteria No. 1 (30%)** - Academic performance, research and professional skill of the candidate (articles and studies mentioned in the CV) (30% of the evaluation score).
 - **Criteria No. 2 (40%)** - The professional level of the doctoral research project evaluated in accordance to:
 - C2.1. - Scientific context and motivation of the proposed subject (20%)
 - C2.2. - Definition of the scientific research objectives (10%)
 - C2.3. - Research methodology (10%)
 - C2.4. - Estimated results (10%)
 - **Criteria 3 (30%)** - Interest of the candidate for scientific research, project presentation and candidate answers to the commission's questions.

After the admission interview, each member of commission will give a mark (between 1 and 10) for each evaluation criterion. The mean for each member is obtained as the arithmetic weighted mean of the marks of each criterion. The final admission mark of the candidate is the mean of the means of each member of commission. After the admission interview, each member of commission will give a mark (between 1 and 10) for each evaluation criterion. The mean for each member is obtained as the arithmetic weighted mean of the marks of each criterion. The final admission mark of the candidate is the mean of the means of each member of commission.

Performance Indicator B.1.2.2. *The expelling rate, including renouncement / dropping out of doctoral students 3, respectively 4, years after admission⁴ does not exceed 30%.*

- 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

Recommendations:

The indicator is partially fulfilled.

The expelling rate after 3 years from the registration for Energy Engineering domain is presented in the following table:

⁴ 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.

Academic year admission / Nr PhD students on 01 Oct.	3 years from admission - (University year) / No. of doctoral students on 01 Oct.	Drop out rate
2017-2018	2020-2021	3/6
6	3	
2018-2019	2021-2022	1/4
4	3	
2019-2020	2022-2023	0/2
2	0	
TOTAL		
12	6	6/12

The average dropout rates for the four years considered is $6/12 = 0,5$ (50%) which exceeding the value of 30% percentage.

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.*

- 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

Recommendations:

The indicator is fulfilled.

The advanced university training program includes disciplines of scientific research methodology and ethics and academic integrity, but also relevant disciplines for training in scientific research in the Energy Engineering doctoral field. Starting with the academic year 2018-2019, the Curriculum (Annex II.B.1) was revised and updated in accordance with OMEN 3131 / 30.01 .2018, respectively HS no.32 / 19.02.2018-Annex 13 (Annex II.B.1.1.), introducing as a separate discipline Ethics and academic integrity in the field of Engineering Sciences.

The curriculum includes at least two components dedicated to some of the transversal competencies, including aspects related to research ethics, scientometry, and academic writing.

The advanced university training program includes relevant disciplines for training in scientific research in the doctoral field Energy Engineering namely:

- Scientific research methodology in the field of engineering sciences
- Ethics and academic integrity in the field of engineering sciences
- Energy management



- Energy systems engineering
- Unconventional energies used in construction
- Efficient installations in buildings
- Efficient energy conversion technologies.

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.*

- *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*

Recommendations:

The indicator is fulfilled.

The following course dedicated to Ethics and Intellectual Property in scientific research are available to PhD students: ***Ethics and academic integrity in the field of engineering sciences.*** (Annex II.B.1.)

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 activities⁵.*

- *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*

Recommendations:

The indicator is fulfilled.

The curriculum has formulated the competencies that are to be ensured through the curriculum. They are divided into **professional and transversal skills**.

The professional competencies pursued are:

- Advanced knowledge in the fundamental field of Engineering Sciences, doctoral field in Energy Engineering;
- Ability to identify, formulate and solve research problems, by mastering advanced research methods and techniques;
- Ability to implement the knowledge acquired regarding the management of research projects in the research activity carried out;
- Abilities of documentation, elaboration and capitalization of scientific works and researches;
- Linguistic skills at academic level in languages of international circulation necessary for the documentation and elaboration of scientific papers;

⁵ 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.



- Understanding and ability to apply the principles and values of scientific research ethics in the fundamental field of Engineering Sciences, PhD field Energy Engineering

The transversal competencies pursued are;

- Effective application of communication techniques, written and oral, combined with interrelationship and work skills at the organizational or professional group level in the conditions of assuming different roles on various hierarchical levels;
- Ability to use information and communication technology;
- Knowledge of human, material and financial resources management, respectively knowledge on career management, as well as knowledge on risk, crisis and failure management;
- Knowledge of the use of legislation in the field of intellectual property rights;
- Economic, technological and social entrepreneurship skills.

Performance Indicator B.2.1.4. *All along the duration of the doctoral training, doctoral students in the domain receive counselling/guidance from functional guidance commissions, which is reflected in written guidance and feedback or regular meeting.*

- *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*

Recommendations:

The indicator is fulfilled.

During the entire doctoral stage the PhD students have benefitted from the support of functional guiding commissions that helped to the development of the research papers. As relevant evidence to demonstrate the functionality of these steering committees, in addition to the official meetings for the presentation of the planned research reports or the doctoral thesis within the steering committee, for the Energy Engineering field is presented in summary form in the table below, on the following category of evidence:

- joint scientific publications or communications of the doctoral student with at least one of the members of the steering committee,
- evidence of the existence of electronic correspondence focused on the feedback provided to doctoral students by the members of the commission or on the request for clarifying meetings from them (**Annex II.B.5**);

Nr.	Joint scientific publications or communications of the doctoral student with at least one of the members of the steering committee
1.	I. Felea, M.Lolea.,S.Dzitac , A Fuzzy Approach for the Treatment of the Human Diseases Resulting from Exposure to Electromagnetic Fields SIC,XX(X) 1-3/2020
2.	I. Felea, V. Moldovan , D. Albuț-Dana, Specificities in Analysis of Energy Availability Generated by Photovoltaic Sources, Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique, Volume: 61 Issue: 1 Pages: 42-47 Published: Jan-Mar 2016
3.	Felea I.,Lolea M. ,Secui C.,Probabilistic Approach of Stabilized Electromagnetic Field Effects,Journal of Sustainable Energy,vol.VIII,No.3,2017,ISSN 2067-5534
4.	Lolea Marius, Dzitac Simona - <i>A few categories of electromagnetic field problems treated through fuzzy logic</i> , Volume of "IOP Conference Series: Materials Science and Engineering" Paper ID: 093 ICAS2017, 2017, ISI Proceedings
5.	Lolea Marius, Dzitac Simona s.a. - <i>Some correlations between characteristics, calculation methods and software applications for simulation of effects of the electromagnetic field</i> , REVTN, Vol. XXI, nr.3 september, Oradea, 2017, BDI
6.	Lolea Marius, Dzitac S. , 2016, <i>Aspects regarding risk assessment of human body exposure in electric and magnetic fields</i> , The 7th International Workshop in Soft Computing Applications - SOFA, 24-26 aug. Arad, Romania, Published in revue <i>Advances in Intelligent Systems and Computing</i> (ISSN 2194-5357)/ ISI Proceedings .
7.	Varga Csaba, Ionescu Gh. C. , Varga Andrei, Ionescu G.L. - Study regarding the expansion and reliability of an existing metallic structure - 18th edition of The National Technical-Scientific Conference „Modern Technologies for the 3 rd Millennium, April 5-6, 2019, Oradea, România http://www.arhiconoradea.ro/Conferinta/HOME.htm , ISBN 978-88-7587-724-8 Published: 2019 ISI PROCEEDINGS
8.	Varga Csaba, Ionescu Gh. C. , Varga Andrei, Ionescu G.L. - Solving the expansion and rehabilitation of an existing metallic structure - 18th edition of The National Technical-Scientific Conference „Modern Technologies for the 3 rd Millennium, April 5-6, 2019, Oradea, România http://www.arhiconoradea.ro/Conferinta/HOME.htm , ISBN 978-88-7587-724-8 Published: 2019 ISI PROCEEDINGS
9.	Varga Csaba, Prada Marcela – <i>Studiu privind realizarea unui planșeu tehnologic, ca urmare a programului de modernizare a Fabricii de Zahăr din Oradea / The study concerning the realization of a technological floor as a result of the modernization programme of Sugar Factory from Oradea – Conferința Națională (cu participare internațională) „TEHNOLOGII MODERNE PENTRU MILENIUL III” – Analele Universității din Oradea – Fascicula – Construcții și instalații hidroedilitare</i> , vol. VII, 2004, pag. 292-314, (BDI)

10.	Prada Marcela, Varga Csaba, Mitrașcă Mihaela – <i>Reabilitarea construcțiilor din zidărie / Rehabilitation of bricks buildings - Conferința Națională (cu participare internațională), „TEHNOLOGII MODERNE PENTRU MILENIUL III”</i> – Analele Universității din Oradea – Fascicula – Construcții și instalații hidroedilitare, vol. VII, 2004, pag. 209-218, (BDI)
11.	LOLEA M.S, NEGREA D.T, SZABO E.R, MINDA A.A, AMBRO M.V- ABOUT THE SUSTAINABILITY, CONTROL AND COSTS OF HYDROGEN PRODUCTION IN HYBRID PLANTS WITH RENEWABLE ENERGY SOURCES, Journal of Sustenable Energy, Vol.12 nr. 2 dec.2021 https://energy-cie.ro/content/view/140/1/ https://energy-cie.ro/content/view/19/43/ https://energy-cie.ro/archives/2021/nr_2/v12-n2-3.pdf
12.	Lolea Marius Savu, Minda Andrea Amalia , Szabo Emeric Remus, Ambro Mircea Vasile, Negrea Daniela Tabita - POSSIBILITIES TO COMBINE THE HYDROGEN WITH HEAT PUMPS IN HEATING SYSTEMS OF BUILDINGS, In Analele Universității din Tg Jiu, nr. 4 , 2021, Engineering series. Indexare , BDI https://www.utgjiu.ro/cercetare2/reviste-jurnale-si-edituri/reviste/ BDI: Index Copernicus, EBSCO, SCPIO, Journal Seek si altele conform capturilor și link-ului https://www.utgjiu.ro/rev_ing/?page=curent&nr=2021-4 https://www.utgjiu.ro/rev_ing/pdf/2021-4/4.pdf https://www.utgjiu.ro/rev_ing/pdf/2021-4/05_Marius%20Savu%20LOLEA_POSSIBILITIES%20TO%20COMBINE%20THE%20HYDROGEN%20WITH%20HEAT%20PUMPS%20IN%20HEATING%20SYSTEMS%20OF%20BUILDINGS.pdf
13.	Marius Savu Lolea, Andrea Amalia Minda Emeric Remus Szabo, Daniela Tabita Negrea - AN OVERVIEW ABOUT THE FEASIBILITY OF THE HYDROGEN POWER PLANTS, STUDIA UNIVERSITATIS BABEȘ-BOLYAI, Engineering series 66(1), noe. 2021 DOI: 10.24193/subbeng.2021.1.8 BDI Indexing: Index Copernicus, DOAJ, ProQuest, Academic Journal database, EBSCO, OAJI, World Cat http://www.studia.ubbcluj.ro/arhiva/cuprins_en.php?id_editie=1392&serie=ENGINEERING&nr=1&an=2021
14.	Daniela Negrea, Marius Lolea, Emeric Szabo -ABOUT THE AVAILABILITY OF HYDRO-ENERGY UNITS FROM THE IAD–DRĂGAN HYDROPOWER SUBSYSTEM, in STUDIA UNIVERSITATIS BABEȘ-BOLYAI, Engineering Series 67(1) 202, 2 DOI: 10.24193/subbeng.2022.1.11 http://studia.ubbcluj.ro/arhiva/cuprins_en.php?id_editie=1455&serie=ENGINEERING&nr=1&an=2022
15.	I Rodica – Sabina Gugu, George – Lucian Ionescu – Study over the energetic impact of sloped terrain support solutions – 17 th edition of The National Tehnical-Scientific Conference „Modern Technologies for the 3 rd Millenium, 22-23 March 2018, Oradea, România, pp. 279 – 285, <i>ISI PROCEEDINGS</i> Published: 2018 http://arhiconoradea.ro/Conferinta/vol.2018/Conference_Volume.pdf

16.	Ionescu G.L., Prichici S., Gugu R.S., Varga Cs. – Modeling Method for Pollutant Dispersion in the Atmosphere - 20th edition International Technical-Scientific Conference Modern Technologies for the 3rd Millennium December 9, 2021 - Oradea (Romania) Published: 2021 ISI PROCEEDINGS http://arhiconoradea.ro/Conferinta/vol.2018/Conference_Volume.pdf https://cloud.uoradea.ro/index.php/s/bS59KMg4yMtsqj ISBN 978-88-87729-68-9
17.	Tiberiu Kovacs, Gh. Constantin Ionescu – Optimization of electrical energy consumption in water supply systems - 19th edition of The National Technical-Scientific Conference „Modern Technologies for the 3rd Millennium, April 5-6, 2020, Oradea, România http://www.arhiconoradea.ro/Conferinta/HOME.htm ISBN 978-88-7587-724-8 Published: 2020 ISI PROCEEDINGS
18.	Szabo Stefan, Kovacs Tiberiu, Ionescu George – Lucian, Csiszter K. Istvan – Andras, Ionescu Daniela – Smaranda, Sărăcuț-Ardelean Andrei-Florin - Comparative studies and research on optimizing electric consumption of water supply systems - JOURNAL OF APPLIED ENGINEERING SCIENCES, VOL. 12(25)1-2022 B+ by the same C.N.C.S.I.S. Our journal is accepted in five International Databases (IDB), (WOS) Web of Science (see: http://mjl.clarivate.com/cgi-bin/jmlst/jlresults.cgi?PC=MASTER&Full=Journal%20of%20Applied%20Engineering%20Sciences)
19.	Csiszter K. Istvan – Andras, Ionescu Gheorghe – Constantin, Sărăcuț-Ardelean Andrei-Florin, Szabo Stefan, Kovacs Tiberiu, Ionescu George – Lucian - Comparative studies and research on energy optimization of non-residential buildings - JOURNAL OF APPLIED ENGINEERING SCIENCES, VOL. 12(25)1-2022 B+ by the same C.N.C.S.I.S. Our journal is accepted in five International Databases (IDB), (WOS) Web of Science (see: http://mjl.clarivate.com/cgi-bin/jmlst/jlresults.cgi?PC=MASTER&Full=Journal%20of%20Applied%20Engineering%20Sciences)

Performance Indicator B.2.1.5. For a doctoral study domain, the ratio between the number of doctoral students and the number of teaching staff/researchers providing doctoral guidance must not exceed 3:1.

- 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

Recommendations:

The indicator is fulfilled.

There is 6 PhD students and 3 guiding mentors and the ratio is 6/3 which is below 3:1.

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 evaluated domain, the evaluation commission will be provided with at least one paper or some other relevant contribution per doctoral student who has obtained a doctor's title within the past 5 years. From this list, the members of the evaluation commission shall randomly select 5 such papers / relevant contributions per doctoral study domain for review. At least 3 selected papers must contain significant original contributions in the respective domain.



- 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

Recommendations:

The indicator is fulfilled.

Following 5 papers have been randomly selected:

1. **Felea I., Lolea M., Secui C., Probabilistic Approach of Stabilized Electromagnetic Field Effects**, Journal of Sustainable Energy, vol.VIII, No.3, 2017, ISSN 2067-5534
2. **Ionescu G.L., Prichici S., Gugu R.S., Varga Cs., Modeling Method for Pollutant Dispersion in the Atmosphere** - 20th edition International Technical-Scientific Conference Modern Technologies for the 3rd Millennium December 9, 2021 - Oradea (Romania) Published: 2021 ISI PROCEEDINGS
3. **Cziszter K. Istvan – Andras, Ionescu Gheorghe – Constantin, Sărăcuț-Ardelean Andrei-Florin, Szabo Stefan, Kovacs Tiberiu, Ionescu George – Lucian - Comparative studies and research on energy optimization of non-residential buildings** - JOURNAL OF APPLIED ENGINEERING SCIENCES, VOL. 12(25)1-2022 B+ by the same C.N.C.S.I.S. Our journal is accepted in five International Databases (IDB), (WOS) Web of Science
4. **Gheorghe-Constantin Ionescu, Cziszter K. Istvan-Andras, Simona-Florentina Prichici, George-Lucian Ionescu – Energy Efficiency Certification Systems for Non-Residential Buildings** - 20th edition International Technical-Scientific Conference Modern Technologies for the 3rd Millennium December 9, 2021-Oradea (România) ISI și ISI PROCEEDINGS Thomson Reuters – Web of Science
5. **Szabo Stefan, Kovacs Tiberiu, Ionescu George – Lucian, Cziszter K. Istvan – Andras, Ionescu Daniela – Smaranda, Sărăcuț-Ardelean Andrei-Florin - Comparative studies and research on optimizing electric consumption of water supply systems** - JOURNAL OF APPLIED ENGINEERING SCIENCES, VOL. 12(25)1-2022 B+ by the same C.N.C.S.I.S. Our journal is accepted in five International Databases (IDB), (WOS) Web of Science

From the 5 selected papers, three are published in the journals indexed in WoS (paper no. 1, 3, 5), and two papers are published on the international conferences indexed in the WoS (papers 2 to 4). Selected papers contain significant original contributions in the Energy Engineering domain.

Performance Indicator *B.3.1.2. *The ratio between the number of presentations of doctoral students who completed their doctoral studies within the evaluated period (past 5 years), including posters, exhibitions made at prestigious international events (organized in the country or abroad) and the number of doctoral students who have completed their doctoral studies within the evaluated period (past 5 years) is at least 1.*

- 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

Recommendations:

The indicator is fulfilled.



The ratio between the number of presentations of doctoral students who completed their doctoral studies in the evaluated period (last 5 years), including posters, exhibitions, made at prestigious international events (held in the country or abroad) - 8 - and the number of doctoral students who completed their doctoral studies in the evaluated period (last five years) - 6 - is 1,33, so greater than 1.

Standard B.3.2. The Doctoral School engages a significant number of external scientific specialists in the commissions for public defense of doctoral theses in the analyzed domain.

**general description of the standard analysis.*

Performance Indicator *B.3.2.1. *The number of doctoral theses allocated to one specialist coming from a higher education institution, other than the evaluated IOSUD should not exceed two (2) in a year for the theses coordinated by the same doctoral thesis advisor.*

- 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

Recommendations:

The indicator is fulfilled.

During the period evaluated within the doctoral field Energy Engineering the number of doctoral theses allocated to a certain referent coming from a higher education institution, other than IOSUD evaluated, is not more than two, for theses coordinated by the same doctoral supervisor, in one year.

Performance Indicator *B.3.2.2. *The ratio between the doctoral theses allocated to one scientific specialist coming from a higher education institution, other than the institution where the defense on the doctoral thesis is organized, and the number of doctoral theses presented in the same doctoral study domain in the doctoral school should not exceed 0.3, considering the past five years. Only those doctoral study domains in which minimum ten doctoral theses have been presented within the past five years should be analyzed.*

- 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

Recommendations:

N/A

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 Doctoral school in the respective university study domain 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 IOSUD, 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 scientific activity of doctoral students;*
- (e) the training program based on advanced academic studies of doctoral students;*
- (f) social and academic services (including for participation at different events, publishing papers etc.) and counselling made available to doctoral students.*

- 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

Recommendations:

The indicator is fulfilled.

Within IOSUD - UO, procedures for monitoring internal quality assurance, as well as internal quality assurance policies have been developed and implemented.

a) the scientific work of Doctoral advisors

- The master's order certifying the granting of the quality of doctoral/habilitation supervisor;
- Affiliation to a Doctoral School that operates within IOSUD_UO;
- Fulfillment of the minimum necessary and obligatory standards for conferring didactic titles in higher education and professional research-development degrees, for the didactic degree of professor, in accordance with the specific annex to the doctoral field, according to OMEN. Each doctoral/qualified doctor-teacher, affiliated to IOSUD_UO will present the Standard Completion Form, on the date of application, whenever necessary, but at least once every 5 years;
- The scientific activity visible internationally by presenting indexed publications Web of Sciences or ERIH in journals with impact factor or other achievements with relevant significance for the respective field;
- The disciplines in the training program based on advanced university studies related to the doctoral field are supported by teachers and researchers who have the quality of doctoral/qualified leaders, professor/CIS or associate professor/CSII with proven expertise in the field of taught subjects;
- The guiding commissions are made up of teachers doctoral supervisors/abilities or associate professor/CSII in the targeted doctoral field, specialists on the research topic of the doctoral thesis;
- The extent to which doctoral supervisors assigned to a field of doctoral studies continues to be scientifically active, obtaining at least 25% of the score required by the CNATDCU standards in force, based on the scientific results of the last 5 years.

b) the infrastructure and logistics necessary to carry out the research activity:

- The quality of teaching materials made available to doctoral students;
 - The access of doctoral students to the material, didactic and research base available to IOSD_UO;
 - Doctoral students' access to electronic documentary information resources through the acquisition of full-text databases/platforms and bibliographic and bibliometric databases;
 - PhD students actually benefit from counseling and guidance from doctoral supervisors, who have established a program of consultations and other guidance/counseling mechanisms (including use of e-mail, e-learning platforms, personal pages, etc.);
 - The existence, endowment, and use of research laboratories with equipment and logistics specific to the field, necessary for the development of the scientific activity of doctoral students at the highest standards. In this sense, the audit sheets of the laboratories will be presented, in accordance with the provisions of the Procedure for the establishment and evaluation of the didactic laboratories (SEAQ_PE - U.04), or the registration of the laboratory on the ERRIS platform will be proved;
 - The existence, endowment, and use of the Research Centers with the equipment and logistics specific to the field, necessary for the development of the scientific activity of the doctoral students at the highest standards. In this sense, the Document on the Presentation of the Research Center will be presented, accompanied by the Validation from the UO Senate, in accordance with the provisions of the Procedure on the establishment, evaluation, and ranking of research centers (SEAQ-PE-U.03);
 - Notifying doctoral students about the possibilities to participate in national and international scientific conferences and communications, by posting them on the doctoral school website, dedicated platforms [https://doctorat.uoradea.ro/ro/evenimente/conferinte.](https://doctorat.uoradea.ro/ro/evenimente/conferinte;);
- c) **the procedures and subsequent rules based on which doctoral studies are organized:**
- Regulation of the University of Oradea regarding the organization and development of doctoral studies and postdoctoral programs;
 - Regulations for the organization and operation of doctoral schools (7);
 - Regulation on the organization and development of the process of obtaining the habilitation certificate;
 - Regulation on granting and revoking the membership of Doctoral School within IOSUD-UO;
 - Operational procedure for the evaluation of doctoral students (SEAQ_PO_CSUD_04);
- d) **) the scientific activity of doctoral students:**
- Continuous evaluation of the scientific activity of doctoral students carried out by the doctoral supervisor based on the way of inclusion in the individual work plan, during the doctoral internship, research reports or lectures made by them, published articles, and participation at conferences and in projects
 - The results of the continuous evaluation are presented by the doctoral supervisor to the doctoral student's guidance committee. When presenting the scientific progress, recommendations can be made regarding the continuation of the doctoral student's research program.
- e) **the training program based on advanced academic studies of doctoral students:**
- At the level of Doctoral Schools, the curriculum of the doctoral field is analyzed annually and modifications of the disciplines are provided for the development of the professional competencies but also of the transversal competencies of the doctoral students can be proposed;

- If, following the feedback mechanism from doctoral students, conclusions are drawn regarding the need for changes in both the training program based on advanced university studies and the scientific research program - these are discussed in the CSD and it proposes CSUD measures to improve the two programs.
- f) social and academic services (including for participation at different events, publishing papers etc.) and counselling made available to doctoral students.**
- The university has a Social Service, an administrative structure coordinated by the vice-rector responsible for student services. UO offers accommodation to students in the four student dormitories (C1 - boys 'dormitory, C2 - girls' dormitory, C3 - mixed dormitory, C4 - mixed dormitory) with 1,435 accommodation places. Student accommodation is regulated by the UO Framework Regulation on accommodation in student dormitories, (Annex I. 27.)
 - The student canteen under private administration has a capacity of 250 seats/series, with the possibility of serving meals in three series. Representatives of the UO management, together with the students, monitor the observance of the requirements imposed by the university regarding the offer of food products and the services offered for students and employees. In the same location were arranged the Select Cafeteria and the Student Club, which, together with the student canteen are collectively called U @ Select Student's Club. U @ Select Student's Club is more than just a student canteen, it offers dining and leisure opportunities focused on students' needs in order to provide them with a welcoming "home". About 400 people benefit from these services every day, either in the cafe/pizzeria or in the canteen.
 - The medical office offers preventive and curative medical assistance to UO students, here activating doctors specializing in family medicine, ASCO employees. Healthcare services are provided in the existing medical office on the central campus of the university.
 - UO also offers spiritual spaces for students. In the central campus, there is a prayer chapel with a daily liturgical program (third floor in Building E) and the historical monument church "St. Archangels Michael and Gabriel ", where priests and doctoral students in the field of Theology work.
 - The Career Counseling and Services Center (CCSC) has its basic mission to facilitate the access of students/doctoral students/graduates to the labor market. The main objective of this structure is to guide students through counseling services, personal development, and mediation of relationships with employers.
 - Informing PhD students about the opportunities for international mobility in different projects (Erasmus +, AUF, etc.)
 - Informing doctoral students about the opportunities for disseminating research results at various conferences, specialized journals;
 - Financial support for the publication of articles in ISI indexed journals.

Performance Indicator *C.1.1.2. *Mechanisms are implemented during the stage of the doctoral study program to enable feedback from doctoral students allowing to identify their needs, as well as their overall level of satisfaction with the doctoral study program in order to ensure continuous improvement of the academic and administrative processes. Following the analysis of the results, there is evidence that an action plan was drafted and implemented.*

- 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



Recommendations:

The indicator is fulfilled.

CSD has created appropriate mechanisms to collect the feed-back of the doctoral students on their needs and level of satisfaction with the doctoral study programme. The Operational Procedure for the internal evaluation and monitoring of doctoral schools / doctoral fields within IOSUD_UO provides that:

- **PhD students will complete the Questionnaire** on the level of satisfaction with the doctoral program (Annex SEAQ_PO_CSUD_05_A.01- <https://www.uoradea.ro/display23520>), in each academic year, in the first quarter of the year;
- **In the next period, the data collected from these questionnaires will be processed**, so that the CSD, based on the information from these questionnaires, will present the CSUD conclusions and, as appropriate, the package of measures proposed to improve the doctoral program as a whole. academic and administrative services provided.

The results of the “Satisfaction Report of PhD students from the ENGINEERING SCIENCES DOCTORAL SCHOOL” for 2020 are presented in Annex II.C.9.

These results are analyzed within the CSD, and the CSD will draw conclusions and, if necessary, will propose a package of measures to improve the doctoral program as a whole, respectively in order to continuously improve the academic and administrative services provided.

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.*
 - 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

Recommendations:

The indicator is fulfilled.

The Doctoral School, through IOSUD, publishes on the website of the organizing institution information about, in compliance with the general regulations on data protection:

- a) **the Doctoral School regulation:**
<https://doctorat.uoradea.ro/ro/documente/reglementari/reglementari-interne>
- b) **the admission regulation:** <https://doctorat.uoradea.ro/ro/admitere/metodologie-admitere-doctorat-iosud-uo>);
- c) **the doctoral studies contract:** (<https://www.uoradea.ro/display17406>)
- d) **the study completion regulation including the procedure for the public presentation of the thesis:** <https://cloud.uoradea.ro/index.php/s/TrLZx6ZYKjejs05#pdfviewer> (Annex.II.C.10.)
- e) **the content of training program based on advanced academic studies:** content of curricula Education plan/subject sheet **Annex.II.B.1**
- f) **the academic and scientific profile, thematic areas/research themes of the Doctoral advisors within the domain, as well as their institutional contact data:** Annex.II.C.11
- g) **the list of doctoral students within the domain with necessary information (year of registration; advisor):** Annex.II.C.12
- h) **information on the standards for developing the doctoral thesis:** Annex.II.A.10;
<https://doctorat.uoradea.ro/ro/domenii-de-doctorat/inginerie-industriala/114-standarde-de-elaborare-a-tezei-de-doctorat>
- 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:** <https://doctorat.uoradea.ro/ro/sustineri-teze/sustineri-teze-doctorat>

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.*

- 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

Recommendations:

The indicator is fulfilled.

All PhD students have free access to the relevant academic databases for the Energy Engineering field for the entire reporting period through the ANELIS Plus program. All doctoral students have access to this platform permanently, based on account and password, from anywhere, free of charge, based on their email account (prenume.numedotorand@student.uoradea.ro)



Students can access the following databases: PROQUEST Central, ScienceDirect Freedom Collection, Scopus, Elsevier, de Gruyter ebooks, SpringerLink Journals, Springer, Web of Science - Core Collection, InCites Journal Citation Reports, Derwent Innovations Index, Clarivate Analytics.

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.*

- *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*

Recommendations:

The indicator is fulfilled.

Each doctoral student assumes the authenticity of the doctoral thesis, together with the scientific supervisor, completing the Declaration on the authenticity of the doctoral thesis.

Each doctoral student has access, upon request and with the consent of the doctoral supervisor, to an electronic system for verifying the degree of similarity with other existing scientific or artistic creations.

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.*

- *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*

Recommendations:

The indicator is fulfilled.

The following laboratories are available for the PhD students in the domain of Energy Engineering:

- ADVANCED MATERIALS RESEARCH INFRASTRUCTURE - SMARTMAT (<https://eeris.eu/ERIF-2000-000G-0383>)
- CENTER FOR RESEARCH AND ENGINEERING TECHNOLOGY IN THE CONVERSION OF ELECTROMAGNETIC ENERGY - CCITCEE (<https://eeris.eu/ERIF-2000-000P-0492>)
- ENGINEERING AND MANAGEMENT ECOSYSTEMS-IMPACT AND DEVELOPMENT (<https://eeris.eu/ERIF-2000-000F-0554>)
- RESEARCH CENTER FOR ENERGY PROCESSES MANAGEMENT (<https://eeris.eu/ERIF-2000-000M-0557>)
- Laboratorul de Audit Electroenergetic
- Laboratorul de Diagnoză Tehnică a Mașinilor și Echipamentelor

Criterion C.3. Internationalization

**general description of the criterion analysis.*



Standard C.3.1. *There is a strategy in place and it is applied to enhance the internationalization of doctoral studies.*

**general description of the standard analysis.*

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.*

- 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

Recommendations:

The indicator is fulfilled.

The following students have attended international scientific conferences:

- LOLEA MARIUS - CIE 2017, CIE 2018
- VARGA CSABA - 15th edition National Technical-Scientific Conference: Modern Technologies for the 3rd Millennium 2015
- GUGU RODICA SABINA - 17th edition National Technical-Scientific Conference: Modern Technologies for the 3rd Millennium 2018; 20th edition National Technical-Scientific Conference: Modern Technologies for the 3rd Millennium 2021
- KOVACS TIBERIU - 19th edition National Technical-Scientific Conference: Modern Technologies for the 3rd Millennium 2020
- SZABO ȘTEFAN SORIN - 20th edition National Technical-Scientific Conference: Modern Technologies for the 3rd Millennium 2021
- CZISZTER K. ISTVAN - ANDRAS - 20th edition National Technical-Scientific Conference: Modern Technologies for the 3rd Millennium 2021

Performance Indicator C.3.1.2. *In the evaluated doctoral study domain, support is granted, including financial support, to the organization of doctoral studies in international co-tutelage or invitation of leading experts to deliver courses/lectures for doctoral students.*

- 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

Recommendations:

The indicator is partially fulfilled.

Performance Indicator C.3.1.3. *The internationalization of activities carried out during the doctoral studies is supported by IOSUD through concrete measures (e.g., by participating in educational fairs to*



attract international doctoral students; by including international experts in guidance committees or doctoral committees etc.).

- 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

Recommendations:

The indicator is fulfilled.

During the IOSUD evaluated period, the University of Oradea participated through its legal representatives in the following educational fairs to attract international doctoral students:

- European Association for International Education - EAIE Annual Conference and Exhibition - 2017
- European Higher Education Fair (EHEF) - 2018
- European Association for International Education - EAIE Annual Conference and Exhibition - 2018
- NAFSA Annual Conference and Expo - 2019
- European Association for International Education - EAIE Annual Conference and Exhibition - 2019
- Vietnam Global Education Fair - GEF - 2019
- IEFT Fall Fair EuroAsia Agent Workshop - 2019
- Virtual Education Fairs - 2022
- European Association for International Education (EAIE) Annual Conference and Exhibition - 2022
- Vietnam Global Education Fair - 2022

IV. SWOT Analysis

<p><u>Strengths:</u></p> <ul style="list-style-type: none"> • Research infrastructure available to the Ph.D. students, especially in the field of geothermal energy • Free access for all Ph.D. students to all relevant databases of scientific papers. • Students are very satisfied with their supervisors. • Cooperation with the industry 	<p><u>Weaknesses:</u></p> <ul style="list-style-type: none"> • Lack of interest of students from the other universities (including international) for study admission. • Lack of international experience among the PhD students
<p><u>Opportunities:</u></p> <ul style="list-style-type: none"> • Stronger cooperation with industry in terms of employing of the graduate doctors • Research/scientific projects in the field of geothermal energy • Stronger internationalization. 	<p><u>Threats:</u></p> <ul style="list-style-type: none"> • Low financial support offered to Ph.D. students by the state. • Number of PhD supervisors is on the bottom level

V. Overview of judgments awarded and of the recommendations

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
1.	PI	<p>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:</p> <p>a) the internal regulations of the Doctoral School;</p> <p>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;</p> <p>c) the Methodologies for organizing and conducting doctoral studies (for the admission of doctoral students, for the completion of doctoral studies);</p> <p>d) the existence of mechanisms for recognizing the status of a Doctoral advisor and the equivalence of the doctoral degree obtained abroad;</p> <p>e) functional management structures (Council of the doctoral school), giving as well proof of the regularity of meetings;</p> <p>f) the contract for doctoral studies;</p> <p>g) internal procedures for the analysis and approval of proposals regarding the training for doctoral study programs based on advanced academic studies.</p>	<i>fulfilled</i>	
2.	PI	<p>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.</p>	<i>fulfilled</i>	
3.	PI	<p>A.1.2.1. The existence and effectiveness of an appropriate IT system to keep track of doctoral students and their academic background.</p>	<i>fulfilled</i>	<p>This recommendation is more as advice (not mandatory). Since you are collecting all the data about the achievements of the PhD students, maybe it would be good to award the best PhD students every year. Maybe prepare some regulations about</p>

				awarding the best PhD students (if you don't have such a regulation). This can encourage PhD students to be better researchers and to achieve better results.
4.	PI	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.	fulfilled	
5.	IP	A.1.3.1. Existence of at least one research or institutional / human resources development grant under implementation at the time of submission of the internal evaluation file, per doctoral study domain under evaluation, or existence of at least 2 research or institutional development / human resources grant for the doctoral study domain, obtained by doctoral thesis advisors operating in the evaluated domain within the past 5 years. The grants address relevant themes for the respective domain and, as a rule, are engaging doctoral students.	fulfilled	This recommendation is more as advice (not mandatory). It would be good to have a regulation on the institution level which will award researchers who apply for grants for research projects and for researchers who have been approved research projects. This will encourage PhD advisors to apply for more projects and increase the possibility to get more new PhD student positions. In this way number of PhD students can be increased.
6.	PI *	A.1.3.2. The percentage of doctoral students active at the time of the evaluation, who for at least six months receive additional funding sources besides government funding, through scholarships awarded by individual persons or by legal entities, or who are financially supported through research or institutional / human resources development grants is not less than 20%.	fulfilled	Increase the cooperation with industry. Maybe partners from the industry can find interest in some of the researches and in this way financially support PhD students.
7.	PI *	A.1.3.3. At least 10% of the total amount of doctoral grants obtained by the university through institutional contracts and of tuition fees collected from the doctoral students enrolled in the paid tuition system is used to reimburse professional training expenses of doctoral students (attending conferences, summer schools, training, programs abroad, publication of specialty papers or other specific forms of dissemination etc.).	Partially fulfilled	From the amounts of doctoral grants obtained by the university through institutional contracts and of tuition fees collected from the doctoral students enrolled in the paid tuition system some specific percentage can be yearly used for the projects PhD students. On the level of Energy Engineering domain University organizes tender for PhD Students' projects. PhD students in agreement with their supervisors apply their project. Through these projects, students can receive funds for attending the conference, pay fees for journals, buy some small equipment (e.g. laptop), etc. In this way, students can gain experience in writing project proposals, and later when they finish PhD they can easily apply their own

				projects for international and national research grants.
8.	CPI	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	<i>fulfilled</i>	
9.	CPI	A.3.1.1. Minimum three doctoral thesis advisors within that doctoral domain, and at least 50% of them (but no less than three) meet the minimum standards of the National Council for Attestation of University Degrees, Diplomas and Certificates (CNATDCU) in force at the time when the evaluation is carried out, which standards are required and mandatory for obtaining the enabling certification.	<i>fulfilled</i>	
10.	PI *	A.3.1.2. At least 50% of all doctoral advisors have a full-time employment contract for an indefinite period with the IOSUD.	<i>fulfilled</i>	
11.	PI	A.3.1.3. The study subjects in the education program based on advanced higher education studies pertaining to the doctoral domain are taught by teaching staff or researchers who are doctoral thesis advisors / certified doctoral thesis advisors, professors / CS I or lecturer / CS II, with proved expertise in the field of the study subjects they teach, or other specialists in the field who meet the standards established by the institution in relation with the aforementioned teaching and research functions, as provided by the law.	<i>fulfilled</i>	
12.	PI *	A.3.1.4. The percentage of doctoral thesis advisors who concomitantly coordinate more than 8 doctoral students, but no more than 12, who are themselves studying in doctoral programs does not exceed 20%.	<i>fulfilled</i>	

13.	CPI	<p>A.3.2.1. At least 50% of the doctoral thesis advisors in the evaluated domain have at least 5 Web of Science- or ERIH-indexed publications in magazines of impact, or other achievements of relevant significance for that domain, including international-level contributions that indicate progress in scientific research - development - innovation for the evaluated domain. The aforementioned doctoral thesis advisors enjoy international awareness within the past five years, consisting of: membership on scientific boards of international publications and conferences; membership on boards of international professional associations; guests in conferences or expert groups working abroad, or membership on doctoral defense commissions at universities abroad or co-leading with universities abroad. For Arts and Sports and Physical Education Sciences, doctoral thesis advisors shall prove their international visibility within the past five years by their membership on the boards of professional associations, membership in organizing committees of arts events and international competitions, membership on juries or umpire teams in artistic events or international competitions.</p>	fulfilled	
14.	PI *	<p>A.3.2.2. At least 50% of the doctoral thesis advisors in a specific doctoral study domain continue to be active in their scientific field, and acquire at least 25% of the score requested by the minimal CNATDCU standards in force at the time of the evaluation, which are required and mandatory for acquiring their enabling certificate, based on their scientific results within the past five years</p>	Partially fulfilled	
15.	PI *	<p>B.1.1.1. The ratio between the number of graduates of masters' programs of other higher education institutions, national or foreign, who have enrolled for the doctoral admission contest within the past five years and the number of seats funded by the state budget, put out through contest within the doctoral domain is at least 0.2 or the ratio between the number of candidates within the past five years and the number of seats funded by the state budget put out through</p>	fulfilled	<p>Recommendation is to develop a strategy for the promotion of doctoral study on state and international level to attract master students from other universities and other countries to enroll study.</p>

		contest within the doctoral studies domain is at least 1,2.		
16.	PI *	B.1.2.1. 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.	fulfilled	
17.	PI	B.1.2.2. The expelling rate, including renouncement / dropping out of doctoral students 3, respectively 4, years after admission does not exceed 30%.	Partially fulfilled	
18.	PI	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.	fulfilled	
19.	PI	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.	fulfilled	
20.	PI	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.	fulfilled	
21.	PI	B.2.1.4. All along the duration of the doctoral training, doctoral students in the domain receive counselling/guidance from functional guidance commissions, which is reflected in written guidance and feedback or regular meeting.	fulfilled	
22.	CPI	B.2.1.5. For a doctoral study domain, the ratio between the number of doctoral students and the number of teaching staff/researchers providing doctoral guidance must not exceed 3:1.	fulfilled	

23.	CPI	B.3.1.1. For the evaluated domain, the evaluation commission will be provided with at least one paper or some other relevant contribution per doctoral student who has obtained a doctor's title within the past 5 years. From this list, the members of the evaluation commission shall randomly select 5 such papers / relevant contributions per doctoral study domain for review. At least 3 selected papers must contain significant original contributions in the respective domain	fulfilled	
24.	PI *	B.3.1.2. The ratio between the number of presentations of doctoral students who completed their doctoral studies within the evaluated period (past 5 years), including posters, exhibitions made at prestigious international events (organized in the country or abroad) and the number of doctoral students who have completed their doctoral studies within the evaluated period (past 5 years) is at least 1.	fulfilled	
25.	PI *	B.3.2.1. The number of doctoral theses allocated to one specialist coming from a higher education institution, other than the evaluated IOSUD should not exceed two (2) in a year for the theses coordinated by the same doctoral thesis advisor.	fulfilled	
26.	PI *	B.3.2.2. The ratio between the doctoral theses allocated to one scientific specialist coming from a higher education institution, other than the institution where the defense on the doctoral thesis is organized, and the number of doctoral theses presented in the same doctoral study domain in the doctoral school should not exceed 0.3, considering the past five years. Only those doctoral study domains in which minimum ten doctoral theses have been presented within the past five years should be analyzed.	N/A	
27.	PI	C.1.1.1. The Doctoral school in the respective university study domain 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 IOSUD, the following assessed criteria being mandatory: a) the scientific work of Doctoral advisors;	fulfilled	

		<p>b) the infrastructure and logistics necessary to carry out the research activity;</p> <p>c) the procedures and subsequent rules based on which doctoral studies are organized;</p> <p>d) the scientific activity of doctoral students;</p> <p>e) the training program based on advanced academic studies of doctoral students;</p> <p>f) social and academic services (including for participation at different events, publishing papers etc.) and counselling made available to doctoral students.</p>		
28.	PI *	<p>C.1.1.2. Mechanisms are implemented during the stage of the doctoral study program to enable feedback from doctoral students allowing to identify their needs, as well as their overall level of satisfaction with the doctoral study program in order to ensure continuous improvement of the academic and administrative processes. Following the analysis of the results, there is evidence that an action plan was drafted and implemented.</p>	fulfilled	
29.	CPI	<p>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:</p> <p>a) the Doctoral School regulation;</p> <p>b) the admission regulation;</p> <p>c) the doctoral studies contract;</p> <p>d) the study completion regulation including the procedure for the public presentation of the thesis;</p> <p>e) the content of training program based on advanced academic studies;</p> <p>f) the academic and scientific profile, thematic areas/research themes of the Doctoral advisors within the domain, as well as their institutional contact data;</p> <p>g) the list of doctoral students within the domain with necessary information (year of registration; advisor);</p> <p>h) information on the standards for developing the doctoral thesis;</p> <p>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.</p>	fulfilled	
30.	PI	<p>C.2.2.1. All doctoral students have free access to one platform providing academic databases</p>	fulfilled	

		relevant to the doctoral studies domain of their thesis.		
31.	PI	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.	fulfilled	
32.	PI	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.	fulfilled	
33.	PI *	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.	fulfilled	Through the students' projects recommended for indicator A 1.3.3. the number of students attending international conferences can be increased. Once a year you can organize workshops for the promotion of Erasmus mobility and encourage students to apply.
34.	PI	C.3.1.2. In the evaluated doctoral study domain, support is granted, including financial support, to the organization of doctoral studies in international co-tutelage or invitation of leading experts to deliver courses/lectures for doctoral students.	Partially fulfilled	
35.	PI	C.3.1.3. The internationalization of activities carried out during the doctoral studies is supported by IOSUD through concrete measures (e.g., by participating in educational fairs to attract international doctoral students; by including international experts in guidance committees or doctoral committees etc.).	fulfilled	



VI. Conclusions and general recommendations

Recommendations

To address the identified weaknesses, here are some recommendations to improve the situations:

Lack of interest from students from other universities (including international) for study admission:

- Increase visibility and promotion: Implement targeted marketing strategies to raise awareness about the doctoral program in energy engineering. This can include participating in international conferences, hosting webinars, and showcasing success stories of current students or alumni to attract students from other universities.
- Scholarships and funding opportunities: Offer competitive scholarships and funding options specifically targeted towards international students. Providing financial incentives can help attract high-quality students who may be deterred by the financial burden of pursuing a doctoral degree.
- Collaborations with international institutions: Establish partnerships and collaborations with renowned international universities or research institutions. Joint research projects, exchange programs, and dual-degree programs can create opportunities for international students to engage with the doctoral program and foster cross-cultural experiences.

Lack of international experience among the PhD students:

- Exchange programs and internships: Develop exchange programs and internships with international universities or research organizations. These programs can provide doctoral students with opportunities to work on collaborative research projects abroad, gain exposure to different research methodologies, and broaden their international network.
- International conferences and workshops: Encourage and financially support doctoral students to present their research findings at international conferences and attend workshops or seminars abroad. This exposure will enable them to interact with experts in their field, receive feedback, and enhance their knowledge and skills.
- International guest lecturers and visiting professors: Invite renowned international experts as guest lecturers or visiting professors to deliver lectures, conduct workshops, or mentor doctoral students. This can provide valuable insights and perspectives, expose students to diverse research approaches, and foster a global academic environment.

By implementing these recommendations, the doctoral program in energy engineering can attract a more diverse pool of students, promote internationalization, and enhance the overall quality and reputation of the program.

Dr. Danijel Topić, Associate Professor



VII. Annexes

The following types of documents shall be attached:

- *The detailed schedule of the evaluation visit – MANDATORY.*
- *The survey questionnaire applied to doctoral students or academic staff in the doctoral study domain under review, the results - optional (e.g., in graphic form) and their interpretation - if applicable.*
- *Scanned documents – any document requested from the IOSUD during the evaluation visit and received, which is not found in the internal evaluation file received before the visit and referred to in the report.*
- *Pictures – if relevant issues are raised regarding the condition of the student residences, cafeterias, premises for teaching and learning activities, library etc.*
- *Screenshots/Print screens of the Doctoral School/IOSUD website proving specific claims in the report, accompanied by the date when they were accessed and saved.*
- *Any other documents relevant to the evaluation process referred to in the report.*



Programul vizitei de evaluare a domeniului de studii universitare de doctorat Inginerie energetica a Universității
din Oradea

*The program for the evaluation of the Energy Engineering doctoral study domain
at the **University of Oradea***

Perioada de derulare a evaluării / *The evaluation period:* 15-16.06.2023

Interval orar hour	Activitate / <i>Activity</i>	Participanți / <i>Participants</i>	Observații/ Locație <i>Observations/ Location</i> Univeristatea din Oradea Str. Universității, 1
Joi / <i>Thursday</i>, 15.06.2023			
10:00-10:30	Întâlnire organizatorică a comisiei de experți evaluatori <i>Organizational meeting of the panel evaluators</i>	- Membrii comisiei de experți evaluatori ARACIS / <i>ARACIS panel members</i>	<i>sala A107</i>
10.30-11.00	Întâlnirea comisiei de experți evaluatori cu responsabilul domeniului de studii universitare de doctorat evaluat și cu echipa care a realizat raportul de evaluare internă <i>Panel evaluators` meeting with the contact person for the doctoral study domain under review and the team who drafted the internal evaluation report</i>	- Membrii comisiei de experți evaluatori ARACIS / <i>ARACIS panel members</i> - Reprezentanți ai instituției evaluate / <i>University's representatives</i>	<i>sala A107</i>



Interval orar hour	Activitate / <i>Activity</i>	Participanți / <i>Participants</i>	Observații/ Locație <i>Observations/ Location</i> Univeristatea din Oradea <i>Str. Universității, 1</i>
11:00-12:00	<p>Întâlnirea comisiei de experți evaluatori cu reprezentanții conducerii instituției evaluate, ai CSUD și ai Consiliului școlii doctorale în cadrul căreia va funcționa domeniul evaluat</p> <p><i>Panel evaluators` meeting with representatives of the institution and of the Council for Academic Doctoral Studies (CSUD) and with Doctoral Schools Council (CSD) members</i></p>	<ul style="list-style-type: none"> - Membrii comisiei de experți evaluatori ARACIS / <i>ARACIS panel members</i> - Reprezentanți ai conducerii universității / <i>Representatives of the University's management</i> - Reprezentanți ai CSUD și ai școlii doctorale / <i>Representatives of the CSUD and of the Counsel of the Doctoral School</i> - Persoana de contact / <i>The contact person</i> 	D101
12.00-13.00	<p>Întâlnirea echipei de evaluare cu membrii Comisiei de Etică a instituției de învățământ superior</p> <p>Întâlnirea echipei de evaluare cu membrii Comisiei pentru Evaluarea și Asigurarea Calității (CEAC) / Departamentul de asigurare a calității</p> <p><i>Panel evaluators` meeting with the members of the Ethics Commission</i></p> <p><i>Panel evaluators` meeting with the Commission for Quality Evaluation and Assurance (CEAC) members / Quality Assurance Department</i></p>	<ul style="list-style-type: none"> - Membrii comisiei de experți evaluatori ARACIS / <i>ARACIS panel members</i> - Membrii Comisiei de Etică / <i>Ethics Commission members</i> - <i>Reprezentant CEAC/ Representative of the Quality department</i> 	sala A107
13:00-14:00	Pauză de prânz / <i>Lunch break</i>		
14.00 – 16.00	<p>Vizitarea bazei materiale didactice și de cercetare;</p> <p>Întâlnirea echipei de evaluare cu personalul didactic aferent domeniului evaluat</p> <p>Întâlnirea echipei de evaluare cu directorii/ responsabilii centrelor/ laboratoarelor de cercetare</p>	<ul style="list-style-type: none"> - Membrii comisiei de experți evaluatori ARACIS / <i>ARACIS panel members</i> - Reprezentanți ai instituției evaluate / <i>University's representatives</i> 	

Interval orar hour	Activitate / <i>Activity</i>	Participanți / <i>Participants</i>	Observații/ Locație <i>Observations/ Location</i> Univeristatea din Oradea <i>Str. Universității, 1</i>
	aferente domeniului de studii universitare de doctorat evaluat <i>Visiting the educational and research infrastructure</i> <i>Panel evaluators` meeting with the academic staff corresponding to the doctoral study domain</i> <i>Panel evaluators` meeting with the Directors/ persons in charge of the research centers/laboratories within the doctoral study domain</i>	- Cadre didactice care au calitatea de conducător de doctorat / <i>Doctoral coordinators</i> -Directorii centrelor / laboratoarelor de cercetare / <i>Directors of research centers/laboratories</i>	
16.00-17.00	Întâlnirea echipei de evaluare cu studenți doctoranzi aferent domeniului evaluat <i>Panel evaluators` meeting with the doctoral students corresponding to the doctoral study domain</i>	- Comisia de evaluare ARACIS / <i>ARACIS panel members</i> - Studenți doctoranzi / <i>Doctoral students</i>	sala A107
17:00-18:00	Întâlnirea echipei de evaluare cu reprezentanți ai angajatorilor absolvenților domeniului evaluat <i>Panel evaluators` meeting with graduates corresponding to the doctoral study domain</i>	- Comisia de evaluare ARACIS / <i>ARACIS panel members</i> - Reprezentanți ai angajatorilor / <i>Employers` representatives</i>	sala A107
Vineri / <i>Friday</i>, 16.06.2023			
9:00-9:30	Întâlnire tehnică a comisiei de evaluare <i>Panel evaluators` technical meeting</i>	- Membrii comisiei de experți evaluatori ARACIS / <i>ARACIS panel members</i>	sala A107
9.30-9.45	Întâlnirea comisiei de experți evaluatori cu responsabilul domeniului de studii universitare de	- Membrii comisiei de experți evaluatori ARACIS / <i>ARACIS panel members</i>	sala A107

Interval orar hour	Activitate / <i>Activity</i>	Participanți / <i>Participants</i>	Observații/ Locație <i>Observations/ Location</i> Univeristatea din Oradea <i>Str. Universității, 1</i>
	<p>doctorat evaluat și cu echipa care a realizat raportul de evaluare internă</p> <p><i>Panel evaluators` meeting with the contact person for the doctoral study domain under review and the team who drafted the internal evaluation report</i></p>	<p>- Reprezentanți ai instituției evaluate / <i>University's representatives</i></p>	
9.45-10.30	<p>Întâlnirea echipei de evaluare cu absolvenți cu titlu de doctor din domeniul evaluat</p> <p><i>Panel evaluators` meeting with graduates corresponding to the doctoral study domain</i></p>	<p>- Comisia de evaluare ARACIS / <i>ARACIS panel members</i></p> <p>- Absolvenți cu titlu de doctor din domeniul evaluat / <i>Doctoral graduates having earned the title of Doctor</i></p>	sala A107
10.30-12.30	<p>Derularea activităților specifice comisiei de experți evaluatori și efectuarea de consemnări în proiectul raportului de evaluare externă.</p> <p><i>Carrying out the specific activities of the panel evaluators and making entries in the draft of the external evaluation report.</i></p> <p>Dacă se consideră necesare, pot avea loc întâlniri suplimentare, spre exemplu cu / <i>If deemed necessary, additional meetings may be held, for example with:</i></p> <ul style="list-style-type: none"> • reprezentanți din Senatul universitar (inclusiv studenți); / <i>representatives from the University Senate (including students);</i> • reprezentanții organizației / organizațiilor studențești; / <i>representatives of the student organization / organizations;</i> 	<p>- Membrii comisiei de experți evaluatori ARACIS / <i>ARACIS panel members</i></p> <p>- Reprezentanți ai instituției evaluate / <i>University's representatives</i></p>	sala A107

Interval orar hour	Activitate / <i>Activity</i>	Participanți / <i>Participants</i>	Observații/ Locație <i>Observations/ Location</i> Univeristatea din Oradea <i>Str. Universității, 1</i>
	<ul style="list-style-type: none"> • reprezentanți ai Centrului de Consiliere și Orientare în Carieră (CCOC); / <i>representatives of the Career Counseling and Guidance Center (CCOC);</i> • reprezentanți ai bibliotecii instituției de învățământ superior; / <i>representatives of the library of the higher education institution;</i> • reprezentanți ai centrelor/laboratoarelor de cercetare din domeniul școlii / școlilor doctorale sau din domeniul evaluat; / <i>representatives of research centers / laboratories in the field of the doctoral school / schools or in the evaluated field;</i> • reprezentanți ai direcției cămine-cantine (sau echivalentă) / <i>representatives of the dormitory-canteen department (or equivalent).</i> • se pot verifica documente de studii la secretariatul IOSUD/școlii doctorale. / <i>Education documents displayed at the IOSUD/Doctoral School secretariat may be checked.</i> 		
12.30-13:30	Pauză de prânz / <i>Lunch break</i>		
13.30-15.30	Derularea activităților specifice comisiei de experți evaluatori și efectuarea de consemnări în proiectul raportului de evaluare externă. <i>Carrying out the specific activities of the panel evaluators and making entries in the draft of the external evaluation report.</i>	- Membrii comisiei de experți evaluatori ARACIS / <i>ARACIS panel members</i> - Reprezentanți ai instituției evaluate / <i>University's representatives</i>	<i>sala A107</i>



Interval orar hour	Activitate / <i>Activity</i>	Participanți / <i>Participants</i>	Observații/ Locație <i>Observations/ Location</i> <i>Univeristatea din Oradea</i> <i>Str. Universității, 1</i>
15:30-16:00	Întâlnirea membrilor comisiei de experți evaluatori cu reprezentanții instituției evaluate pentru comunicarea concluziilor procesului de evaluare <i>Panel evaluators` meeting with representatives of the institution under review to discuss on the conclusions of the evaluation process.</i>	- Membrii comisiei de experți evaluatori ARACIS / <i>ARACIS panel members</i> - Reprezentanți ai instituției evaluate / <i>University's representatives</i>	<i>sala A107</i>

* Toate activitățile incluse în structura programului vizitei comisiei de evaluare sunt obligatorii, însă ordinea și durata alocată acestora sunt stabilite de către comisie în funcție de specificul evaluării. / * All activities included in the structure of the panel evaluators visit program are mandatory, but the order and duration allocated to them are established by the commission according to the specifics of the evaluation.

Prof. univ. dr. Constantin Vertan

Coordonator al comisiei de experți evaluatori ARACIS

Prof. univ. dr. Bungău Constantin

Rector al Universității din Oradea