

The External Evaluation Report of a Doctoral Study Domain

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I. Introduction

During the week of November 22 – 26, 2021 I participated as international evaluator for the University of Medicine and Pharmacy, Victor Babes Timisoara (UMFVBT). Due to the sanitary situation, the evaluation was carried out fully on line. The evaluation panel for the Pharmacy domain was composed of three members. The coordinator of the evaluation, the international evaluator and one external doctoral student. On the academic year of 2018-2019, the Doctoral School of Medicine-Pharmacy was organized by annexing the doctoral field of Pharmacy to the Doctoral School of Medicine to constitute the doctoral school of Medicine and Pharmacy. The mission of the UMFVBT is to ensure theoretical and practical training for highly qualified students in the field of biomedical and pharmaceutical sciences.

In total there are 88 doctoral supervisors (83 in medicine and 5 in pharmacy). There are 505 enrolled doctoral students.

Currently, there are 25 doctoral students are enrolled within the field of Pharmacy of the University Doctoral Studies, supervised by 5 doctoral advisors. So far, the Pharmacy field of the Doctoral School of Medicine and Pharmacy has not been evaluated by ARACIS.

II. Methods used

The evaluation was carried out fully on line due to pandemic restrictions. All documents needed for the evaluation were downloaded from a secured cloud platform. The documents include the english version of the self assessment report and 60 annexes. During the entire period of evaluation, professional interpreters were provided by ARACIS. Moreover, possibilities of having more information and meetings were offered, upon request. Some requested documents were provided during the evaluation. The visit followed a precise timetable that was sent before the visit. Each meeting lasts 50 minutes. The visit started with a preliminary online meeting of experts, members of the evaluation team. At this meeting, a preparation and harmonization of evaluation stages in the blended format was discussed. Then online meetings with representatives of both the doctoral school of UMFVBT and the doctoral school of Pharmacy domain followed. During the evaluation, I had meetings with representatives of teaching staff, students, doctoral advisors, alumni, employers of graduates. The last day of the evaluation, we had two meetings dedicated to oral conclusions and recommendations of the panels.

In overall the practical issues were very well mastered. No technical nor any problems came to hamper our evaluation. The persons from UMFVBT and ARACIS are thankful for their help and professionalism. help



III. Analysis of ARACIS's performance indicators

Domain A. INSTITUTIONAL CAPACITY

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

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.

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

The activity of the Pharmacy Domain is regulated according to the ARACIS criteria. Seven annexes were provided where it can be found details about the the specific regulations and their application at the level of the Doctoral School of Pharmacy. These administrative documents demonstrate that the doctoral school is working according to the established rules.

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

The doctoral school provide the adminstrative evidence of its compliance with the rules in force.

Recommendations:

The indicator is fulfilled

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



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

Annex 27 is dedicated to the institutional regulation of the functional study programs. It gives all administrative details regarding this performance. For the international evaluator, this performance is considered as acquired because it concerns mainly pure internal administrative issues.

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

According to the official document provided, we consider that the performance was fulfilled.

Recommendations:

The indicator is fulfilled

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

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

The doctoral school of Pharmacy domain uses a simple excel sheet to keep the record of doctoral students and their academic path. It is an internal tool used at the administrative level and it follows well established rules formalised in an official document. However, according to the information provided in Annex 34, the academic background of the students are not provided.

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

The IT system exist but not include the all useful informations (academic background).

Recommendations:

The indicator partially fulfilled

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

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

The doctoral school use the software for the detection of plagiarism (www.sistemantiplagiat.ro). The doctoral advisor analyze the report generated by the software. The theses manuscripts and publications are systematically screened for plagiarism.

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

The doctoral school has and use an official software for plagiarism detection.

Recommendations:

The indicator is fulfilled

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.



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

At the time of submission of the internal evaluation file, two granted projects coordinated by doctoral advisors from the Pharmacy School were implemented. One of the projects has been implemented very recently (2020). There are two other projects where the doctoral advisors are members. For the 5 years period, three doctoral advisors were very active in obtaining grants. A total of 25 grants (11 grants where doctoral advisors are coordinators and 14 grants as members). Doctoral students were involved in three institutional development grants.

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

Doctoral advisors of the Doctoral school of Pharmacy (especially for two of them) are active in attracting grants at both institutional and research levels.

Recommendations:

The indicator is fulfilled

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

According to the self evaluation report and the feedbacks from the students during the meeting, 9 students have benefited or benefit from additional financial support for the period 2018 to present. This represents an average of 3 students/academic year (9 students out of 29). At the time of the evaluation, 3 students benefit from additional funding.

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

For the evaluated period (2018-present), the performance is fulfilled since 9 students of 29 have benefited or benefit from additional. However, the percentage of students at the time of the evaluation who benefit from additional funds is less than 20% (3 students of 25 being).

Recommendations:

The indicator partially fulfilled

Performance Indicator *A.1.3.3.1 *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*

¹ 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 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

It is reported and supported by official documents that a percentage of 90% of the revenues collected principally from payed fees is allocated for the organization and functioning of CSUD. From this budget, the professional training expenses are financed.

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

The 10% of the total amount is not calculated nor mentioned. It is not clear what is the % of revenues that is dedicated to the professional training expenses.

Recommendations:

The performance is partially fulfilled

Criterion A.2. Research infrastructure

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

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

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

In addition to the equipments present in the hosting laboratories, students enrolled in the doctoral school of Pharmacy have full access to two research centers. One is dedicated to pharmacotoxicology and the second for the drug formulation and technology, both directed by Pharmacy Professors. Moreover, students can benefit from the Center for Advanced Instrumental Screening (also coordinated by one member of the Pharmacy school) following a protocol.

The infrastructures and the offer of research services are accessible through a dedicated on line platform. The list of equipments is rich and presage high standard work environment. During the meeting with PhD students, we largely discussed the presence of needed research facilities and the feedback of PhD students was very positive.

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

Based solely on the valuated report, the performance is very good. Students are working in good scientific and instrumental environment. The on site visit would have permitted to have better opinion.

Recommendations:

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.



The indicator is fulfilled

Criterion A.3. Quality of Human Resources

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

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

At the doctoral school of Pharmacy, there are five doctoral advisors. All of them meet the minimum standards of the national council for attestation of University degrees.

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

The performance is met, since all doctoral advisors (five) fulfill the minimum standards of CNATDCU.

Recommendations:

The indicator 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

At the Doctoral School of Pharmacy, all doctoral supervisors (100%) are holders of a full-time employment contract with the IOSUD.

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

Excellent performance.

Recommendations:

The indicator is fulfilled

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

The education program at the doctoral school of Pharmacy is ensured by five recognized and habilitated doctoral advisors. Moreover, Professors and Assistant Professors with competencies in the pharmacy



field participate actively in the teaching activities. The CVs of the supervisors and teaching staff are provided and indicate good qualification within the pharmacy domain.

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

The information provided in Annex 42 is helpful and permit to conclude that the performance is largely met.

Recommendations:

The indicator is fulfilled

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 programs² does not exceed 20%.*

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

All doctoral supervisors coordinate less than 8 doctoral students at the same time.

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

The performance is excellent.

Recommendations:

The indicator is fulfilled

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

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

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



According to the self evaluation report (Annex 44). All doctoral advisors have relevant scientific production. During the period 2016-2020, all scientific advisors have published at least 5 articles. For the majority of articles, the impact factor oscillate between 3 and 5. One of the doctoral advisor publishes mostly in the journal Farmacia which could be considered as a national journal.

Among them, four are active in participation in reviewing and memberships in the editorial teams of journals within the pharmacy domain.

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

It is evident that doctroal advisors are vey active and are fully involved in research. The scientific production is of good quality.

Recommendations:

The indicator is fulfilled

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 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

All doctoral advisors are active in their research field. Full information about the scientific activity and production is provided. The five supervisors display Hirch Indexes (h-index) between 8 and 22 (8, 10, 16, 21 and 22). In most of the published articles, the doctoral supervisors appear either first, second, as corresponding or co-corresponding authors. The articles related to the projects of PhD students display the student as the first author. The impact factor of the targeted journals can be considered as high in the field of Pharmacy domain. Four of the doctoral supervisors are very activie in delivering communications (both oral and posters) at national events and abroad.

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

The pformance is very good. The doctoral thesis advisors show dynamic activity in their scientific field.

Recommendations:

The indicator is fulfilled

Domain B. EDUCATIONAL EFFECTIVENESS

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

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

As provided in Annexes 46a-b, the ratio between the number of master students coming from outside UMFVBT and the number of offered scholarships is 2 (6 students for 3 scholarships). In the same vein, the ratio between the number of candidates (for the last 5 years) and the number of scholarships financed from the state budget varies from 9 to 11.

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

The performance is largely fulfilled.

Recommendations:

The indicator is fulfilled

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

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

The admission to the doctoral school is based on five different selection criteria: the academic background and scores, linguistic level, experience in research including the publishing activity, communication, the ability of problem solving and creative thinking. The admission follows methodology regarding the organization of admission in the cycles of doctoral university studies within the UMFVBT.

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

The selection criteria is accurate. The doctoral school may seek for some recommendations from professors who taught the students.

Recommendations:

The indicator is fulfilled

Performance Indicator B.1.2.2. The expelling rate, including renouncement / dropping out of doctoral students 3, respectively 4, years after admission³ does not exceed 30%.

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

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 No. 1/2011 with subsequent amendments and additions.



During the evaluated period (2018-2020), two students were dropped out. One student of 14 during the academic year 2018-2019 and one student of during the year 2019-2020. The maximum dropping rate is 7%.

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

The dropping out rate is below the maximum allowed. However, the reasons of dropping out are not provided.

Recommendations:

The indicator is fulfilled

Criterion B.2. The content of doctoral programs

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.

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

Based on the curriculum of the year 2020-2021, the doctoral school of Pharmacy offers 6 mandatory disciplines and 6 optional disciplines : Mandatory disciplines are: Scientific research methodology; Ethics of scientific research; Biostatistics; Documentation, writing and publication of scientific articles; Grant design and management; Ethics and academic integrity. The Optional disciplines include: Experimental models in translational research; Communication, oral presentation and poster; Modern techniques in medical and pharmaceutical research; Bioinformatics and applied genomics in medical research; Evidence-based medicine and research

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

The doctoral school of pharmacy includes in its curriculum disciplines related to research training, research methodology and biostatistics.

Recommendations:

The indicator is fulfilled

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

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

The doctoral school offer one mandatory course dedicated to ethics and academic integrity. The details of the course given in Annex 48 provide well-defined topics on the subject.

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

The performance is met.

Recommendations:

The indicator is fulfilled



Performance Indicator B.2.1.3. *The IOSUD has mechanisms to ensure that the academic training program based on advanced university studies addresses „the learning outcomes”, specifying the knowledge, skills, responsibility and autonomy that doctoral students should acquire after completing each discipline or through the research activities⁴.*

- description of the facts, the findings from the assessed institution’s documents and the evaluation visit itself

The self evaluation report address details regarding the most important knowledge and skills acquired by doctoral students after completing the advanced training within the Doctoral School. For each disciplines, the objectives, skills, outcomes and the transversal competencies were described.

- analysis of the facts, the findings from the assessed institution’s documents and the evaluation visit itself

The academic training program is up-to date and modern. It is built is such a way to promote autonomy and to make a positive impact on the society.

Recommendations:

The indicator is fulfilled

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

Doctoral students benefit from advices of a guidance commissions. The later is proposed by the doctoral advisor. The utility of the commission was appreciated and confirmed by the students during the meeting between the evaluation panel and the graduates and PhDs.

- analysis of the facts, the findings from the assessed institution’s documents and the evaluation visit itself

Operational guidance commissions are implemented.

Recommendations:

The indicator is fulfilled

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

For the period 2018-2020, 29 students were enrolled and were supervised by five habilited 5 doctoral advisors. It is assumed that other teaching staff/researches without doctoral advisor habilitation are involved in the supervision activity.

⁴ 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.



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

Based on the number of doctoral advisors the ratio between the number of students and the number of doctoral advisors is $29/5 = 5.8$.

Recommendations:

The indicator is not fulfilled.

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

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

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

The two students who defended their PhD theses during the evaluated period, have published 4 and 3 articles ISI indexed. The articles were published in journals with impact factors comprised between 1.6 and 3.06. The students were first authors in all publications. The five selected papers are listed below. The 3 selected papers containing original contributions are indicated in **bold**. These 3 publications provide interesting experimental work that can be applied to other areas of research.

Circioban D et al. Guest–host interactions and complex formation for artemisinin with cyclodextrins: instrumental analysis and evaluation of biological activity. J Therm Anal Calorim. 2018, 134, 1375–84. FI 2.5.

Circioban D et al. Thermal degradation, kinetic analysis and evaluation of biological activity on human melanoma for artemisinin. J Therm Anal Calorim. 2018, 134, 741–8. FI 2.471

Circioban D et al. Thermal degradation, kinetic analysis and evaluation of biological activity on human melanoma for artemisinin. J Therm Anal Calorim. 2018, 134, 741–8. FI 2.471

Drăghici GA et al. A semi-field experiment with juvenile Cantareus aspersus snails. Environmental toxicology and pharmacology, 2019, 72, 103243. IF-3.061

Drăghici GA et al. Short-term effects of very low dose cadmium feeding on copper, manganese and iron homeostasis: A gastropod perspective. Environmental toxicology and pharmacology, 2019, 65, 9-13. IF- 3.06.

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

The quality and quantity of the scientific production is good. However, our opinion is based only on two defended theses.

Recommendations:

The indicator is fulfilled



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

For the two doctoral students who defended their theses, they have presented their work in 7 international events. The presentations were either oral or as posters and some communications were published.

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

The performance is largely satisfied as the ratio of presentations in international events (7)/ number of defended theses (2) = 3.5.

Recommendations:

The indicator is fulfilled

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.*

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

For the two defended theses (2019 and 2020), one specialist has participated in both theses.

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

Although, the the performance indicator is fulfilled, it is difficult to draw conclusions due to the very limited number of defended PhD theses.

Recommendations:

The indicator is fulfilled

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

For the two defended theses, 6 experts were participated and only one has sat in both theses. Therefore, the ratio is 1.

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



It is difficult to evaluate the performance based only on two defended theses.

Recommendations:

The indicator is fulfilled

Domain C. QUALITY MANAGEMENT

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

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.

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

The criteria a to f are developed. Among them, the criteria related to the scientific activities of doctoral advisors and doctoral students are evaluated on annual bases. The training program is annually updated. Some academic services such as the payment of publications fees are annually revised and approved by the University senate. The University Senate revise and approves the modification of tuition fees for doctoral studies.

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

Based on the self assessment report and the associated annexes, the doctoral school provide strong elements supporting continuous development of the evaluation process and its internal quality assurance.

Recommendations:

The indicator is fulfilled

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

A satisfaction survey is conducted among students through a detailed questionnaire (provided in Annex 56). The questionnaire is composed of 5 items and each item is declined in 5 to 6 questions and the answers are ranked from 1 to 5 (from fair to excellent). The results of the questionnaires are analyzed and used by the CSUD to enhance the program. Questioned during the meeting with the evaluation panel, PhD students expressed their full satisfaction with the implemented mechanism.

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

Robust mechanisms are implemented to improve the doctoral study program.

Recommendations:

The indicator is fulfilled

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

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

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

Information [a to i](#) (indicated above) are provided on the web site of the University. The web site is developed in three languages (Romanian, English and French). The organization of the web site is such that the information sought is easily found. We conducted some searches on the web site and we were pleased to find a functional site. Even without looking at all details regarding the criteria [a to i](#), we can be confident to say the performance is fulfilled.

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

The web site provides full information to the users, among students, teachers, doctoral advisors, professionals, administrative staff,...



Recommendations:

The indicator is fulfilled

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

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

The students have access to bibliographic resources provided by the UMFVBT library. In addition, they may access other resources found in external institutions such as the UMF alliance between the main Universities of Medicine and Pharmacy in the country. The students feedbacks were excellent (they were questioned during the meeting with the panel).

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

Valuable and efficient resources exist and bring full satisfaction for the users.

Recommendations:

The indicator is fulfilled

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

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

Doctoral students have free access to a software for detecting plagiarism (www.sistemantiplagiat.ro). All doctoral theses were evaluated for antiplagiarism.

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

The required system for plagiarism detection exists.

Recommendations:

The indicator is fulfilled

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

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

Doctoral students in the Pharmacy field have access to three research centers: two advanced research centers and one methodological (instrumental) center. These centers are coordinated by doctoral advisors from the pharmacy school. Very detailed information regarding the type of instruments available are provided in Annex 39. According to the discussion that we had during the meeting of the panel members with doctoral students, it was observed full satisfaction about the research facilities. No heavy administrative hurdles were mentioned.



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

It can be concluded that doctoral students have the necessary means to conduct their scientific activity. The site visit could have given better idea.

Recommendations:

The indicator is fulfilled

Criterion C.3. Internationalization

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

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

The Doctoral School of Pharmacy is involved in several Erasmus + programs with Universities in Italy (3 universities), Hungary and France. These programs cover students and teachers mobility. During the evaluated period 37% of doctoral students from the Doctoral School of Pharmacy have participated in international conferences and some have presented their work either as oral communications or posters.

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

The mobility is considered by the doctoral school. The participation of students in international events is regular.

Recommendations:

The indicator is fulfilled

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

The doctoral school has organized an international summer school (10 days) focused on medicinal plants. Two international speakers were invited. However, the doctoral school do not display international co-tutelage activities.

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



Although the doctoral school is active at the international level, it has not yet co-direction or co-tutelage theses.

Recommendations:

The indicator 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

The doctoral school has participated in one international event for promoting the doctoral program.

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

Promotion of the internationalization activities needs to be reinforced.

Recommendations:

The indicator is partially fulfilled

IV. SWOT Analysis

<p><u>Strengths:</u></p> <ul style="list-style-type: none"> - United team of doctoral advisors, working in harmony - Doctoral advisors with respected performance (h-index) - Key responsibilities in the management of the research facilities - Promising research themes 	<p><u>Weaknesses:</u></p> <ul style="list-style-type: none"> - Weak internationalization activities - Dropout rate of PhD students is relatively high - Only few teachers with habilitation to supervise research - Too many publications in the national journal Pharmacia.
<p><u>Opportunities:</u></p> <ul style="list-style-type: none"> - Increase the number of doctoral supervisors - Develop international activities through co-direction and co-tutelage of PhDs - Develop interdisciplinarity - Develop interactions with the pharmaceutical industry. - Promote the attractiveness 	<p><u>Threats:</u></p> <ul style="list-style-type: none"> - The small size of the doctoral school - Competitiveness with larger faculties and research centers - The supervision rate is too high.

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>	Fulfilled	No recommendation. The necessary regulations are implemented
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>	Fulfilled	No recommendation
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>	Partially fulfilled	The IT system must be fed with more information with academic background
4.	PI	<p>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.</p>	Fulfilled	No recommendation. The used system is certified and used on regular bases.

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
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	Consider the participation in EU calls that are focused on themes within the pharmacy domain
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%.	Partially fulfilled	Additional funding resources must be increased.
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	The doctoral school should be more precise about the percentage dedicated to reimburse professional training expenses.
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	Fulfilled	In order to gain in autonomy and competitiveness, the research infrastructure must be constantly enriched with new equipments.

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
		developed within the past 5 years will be presented distinctly		
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.	Fulfilled	No recommendation. All doctoral advisors meet the minimum criteria
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.	Fulfilled	No recommendation.
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.	Fulfilled	Consider inviting external speakers/teachers to participate in teaching and training
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%.	Fulfilled	Avoid as much as possible the supervision of high number of PhDs.
13.	CPI	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	Fulfilled	Consider to vary the targeted journals. Sometimes, one person publish the majority of his/her articles in the same journal.

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
		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.		
14.	PI *	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	Fulfilled	<ul style="list-style-type: none"> - Avoid to publish too much in national journals - Consider to enhance the impact factor.
15.	PI *	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.	Fulfilled	<ul style="list-style-type: none"> - Use all available means to attract national and international students - Consider (if the regulation allows it) to reserve a number of seats for external applicants (national and abroad)
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.	Fulfilled	Reinforce the selection criteria in order to avoid dropping out.

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
		Interviewing the candidate is compulsory, as part of the admission procedure.		
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%.	Fulfilled	The recrutement procedure should be reinforced to avoid dropout.
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	Consider continuous improvement of the educational content of the 3 relevant disciplines.
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	No recommandation
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	No recommandation. The requested mechanisms exist and are operational.
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	The role and responsibilities of the guidance commission should be reinforced and clarified in order to prevent the dropping out. The expelling rate was high during the evaluated period.
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.	Not fulfilled	The number of doctoral advisors must be increased in regard to the increasing number of PhD students.
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	Fulfilled	<ul style="list-style-type: none"> - Consider to vary the targted journals. - Consider targeting journals with high impact factors before going to less impacted onces.

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
		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		
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	Push students as much as possible to present their work in international events.
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	Avoid to invite systematically the same expert.
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.	Fulfilled	Consider the invitation of international experts (depending on the budget) to take part of the PhD juries.
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; b) the infrastructure and logistics necessary to carry out the research activity;	Fulfilled	No recommendation. The performance is excellent.

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
		<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	No particular recommendation. The job is well done
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	The doctoral school is encouraged to put as much as possible information on the english version of the web site. This constitutes an ideal channel for disseminating information

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
30.	PI	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.	Fulfilled	No recommendation. The performance is very good.
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	No recommendation. The available system is widely used by doctoral students.
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	No recommendation
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	Although the performance is good, the doctoral school is encouraged to conclude more agreements for doctoral students mobility.
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	Now, the doctoral school is well implemented, it is time to be proactive in developing co-direction and co-tutelage of PhD theses with international partners.
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.).	Partially fulfilled	<ul style="list-style-type: none"> - Take opportunities to promote the doctoral studies. The AUF and CIDPHARMEF are good places. - Inviting international experts for doctoral committees. This is an excellent opportunity to develop collaborations and promotion of the doctoral school.



No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations

The recommendations contained in the report shall be resumed in the indicators' analysis. Other general recommendations may be made that do not fit within a particular indicator.

VERY IMPORTANT!!! – Each identified weakness must be correlated with at least one recommendation to improve the situation!

VI. Conclusions and general recommendations

Several important issues raised during the evaluation are resumed and some general conclusions are drawn on the quality of the education provided within the doctoral study domain under review; the Experts' Panel also presents general assessments about the institution. Other general recommendation may also be presented, which cannot be related to a specific indicator and have not been presented at point V.

A decision is proposed, together with the reasons for granting it (if the Experts' Panel members do not reach a consensus, each of them can propose and argue his/her own decision).

Conclusions:

The doctoral school of Pharmacy of UMFVBT is young. It was implemented in 2018. The doctoral school is well managed and very motivated doctoral advisors are doing their best to promote the doctoral studies. The graduates and PhD students feedbacks about the school was very positive. No major problems were revealed during the evaluation. The two main research centers are coordinated by two active doctoral advisors. The doctoral programs and the procedures from the selection until the graduation follow the regulations in force. Despite many positives points, the doctoral school still suffering from few deficiencies related to: low number of habilitated Professors to supervise doctoral students; weak international activities, attractiveness, scientific production is too focused on very few journals.

Recommandations

- Consider to promote the doctoral studies in the pharmacy domain toward international students
- Develop international collaborations including co-direction of PhD theses
- Revise the selection process and reinforce the guidance commissions role in order to avoid the dropping out
- For the scientific production, focus on quality over quantity
- Implement and develop specific scientific niche

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