

Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior – **EQAR**

Annex no. 3

The External Evaluation Report of a Doctoral Study Domain

CONTENTS

- I. Introduction
- II. Methods used
- III. Analysis of performance indicators
- **IV. SWOT Analysis**
- V. Overview of judgments awarded and of the recommendations
- VI. Conclusions and general recommendations



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

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.);

The objective of the external evaluation: periodic evaluation

Visit period: 14 – 18 June 2021

Doctoral field: Agronomy

Composition of the ARACIS commission that performs the evaluation:

Coordinator: Prof. univ. Dr. Costel SAMUIL

International expert: Prof. univ. dr. KONVALINA Petr

PhD student: BORCEA Denis Gabriel

- details about the doctoral school(s) of which the doctoral domainunder reviewis part (number of doctoral advisors, number of students, institutional context, short history etc.).

The Doctoral School of Engineering and Management of Plant and Animal Resources (IMRVA) organizes and carries out a doctoral study program in the doctoral fields: Agronomy, Horticulture, Biotechnology, Animal Husbandry, Engineering and Management in Agriculture and Rural Development.

The general framework of organization and functioning of the doctoral school of Engineering and Management of Plant and Animal Resources is established by the provisions of GD 681/2011 on the approval of the Code of doctoral studies, with subsequent amendments and completions, IOSUD regulation (Annex 10), IMRVA doctoral school regulation (Annex 79) in compliance with the law.

According to GD 681/2011 art. 14 (1) the doctoral school of Engineering and Management of Plant and Animal Resources is led by the director of the doctoral school (Annex 81) and by the council of the 20 doctoral school (CSD) (Annex 82). The Council of the Doctoral School of Engineering and Management of Plant and Animal Resources is composed of five members (Annex 82) two members from among the doctoral supervisors within the doctoral school, in proportion of maximum 50%, a doctoral student of a field within the doctoral school, representing 20% and two members from outside the doctoral school, recognized scientific personalities, doctoral supervisors.

The doctoral school of Engineering and Management of Plant and Animal Resources was established in accordance with the legislation in force (with art. 158 paragraphs (1) and (2) of the National Education Law no. 1/2011 and Government Decision no. 681/2011 on the approval Code

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



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

of doctoral studies, with subsequent amendments and completions) by the approval of the USAMV Senate in Bucharest on 20.07. 2011.

Currently, the Doctoral School of Engineering and Management of Plant and Animal Resources has a number of 44 doctoral supervisors. Within the doctoral fields, in 2019/2020 doctoral students, in internship, were: Agronomy - 52 budget, 3 fee; Biotechnology - 40 budget, 11 fee; Horticulture - 44 budget, 9 fee; Animal husbandry - 25 budget; Engineering and Management in Agriculture and Rural Development - 29 budget, 31 fee.

- details about the doctoral study domain under review (number of students, institutional context, short history etc.).

USAMVB, reprezentantul legal a IOSUD, este certificată de către Agenția Română de Asigurare a Calității Învățământului Superior cu calificativul "Grad de încredere ridicat" și a adoptat sistemul de management al calității ISO 9001. The doctoral studies in the field of Agronomy within IOSUD, have a character of continuity. With the transformation of the School of Agriculture from Herăstrău into the Academy of Higher Agronomic Studies, a higher degree institution, the agronomic engineers could be awarded the title of "Doctor" in "Agronomic Sciences", according to the university norms. The Academy of Higher Agronomic Studies in Bucharest elaborated an Internal Regulation for the organization of the doctoral exam for the period 1929-1931. Documents of the time show that the doctoral training was first done in the form of aspiration. In 1934, the Kingdom of Romania, the Ministry of National Education, the Academy of Higher Agronomic Studies in Bucharest, on behalf of His Majesty King Carol II conferred the Doctorate in Agronomic Sciences, number 1, to Mr. Angelo Frunzănescu (modified from Frundianescu), with the thesis entitled "The importance and profitability of the main oil plants in Romania".

In 2019/2020, the number of doctoral supervisors from Dom, the year of doctoral studies in Agronomy was 11, and that of doctoral students, in internships, were 55.

USAMVB, the legal representative of IOSUD, is certified by the Romanian Agency for Quality Assurance in Higher Education with the qualification "High degree of trust" and adopted the quality management system ISO 9001. The last recertification assessment was performed in 2020 and the certificates have valid until 2022.

II. Method used

Detailed description of the used method is in report in Romanian language



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

III. Analysis of ARACIS's performance indicators

Domain A. INSTITUTIONAL CAPACITY

- general description of domain analysis.

Detailed description is in report in Romanian language

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.

- general description of the standard analysis.

The existence of regulations, procedures and other specific documents for the organization of doctoral studies according to the legal provisions is analyzed.

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 description of the facts, of the findings resulting from the documents submitted by the assessed institution and of the assessment visit itself.

a) the internal regulations of the Doctoral School;

At the level of IOSUD / IMRVA doctoral school there are internal regulations of the administrative structures (Institutional Regulation for the organization and conduct of doctoral studies, regulations of doctoral schools): Regulation for the organization and operation of doctoral studies (IOSUD) (Annex 10) and is available on the IOSUD website http://www.usamv.ro/images/Programe_de_studii/Doctorat/2021/Legislatie/Regulament_IOS UD.pdf. The regulation of the Doctoral School "Engineering and Management of Plant and Animal Resources" (Annex 79) was approved in the CSUD meeting (Annex 118) and is available on the web page http://www.usamv.ro/images/Programe_de_studii/Doctorat/2021/ Legislation / Regulation_IMRVA.pdf.

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;

Within IOSUD, the process of establishing and electing management structures and functions is carried out according to the Methodology on the process of establishing and electing management structures and functions at USAMV B (Annex 7). The methodology regulates the legal framework of these elections and points 4.5.2 art. 31 and 4.5.3 art. 33 of the methodology refer to the CSUD and CSD elections. Art. 57 (1) - (7) of the same methodology presents information regarding the elections for the CSUD director and art. 56 (1) - (5) for the director of the doctoral school. The IOSUD Regulation contains regulations on CSUD and CSD (Annex 10). The IMRVA SD Regulation contains information on the IMRVA SD CSD (Annex 79).

The competition for the position of CSUD director within IOSUD USAMVB took place



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

according to the Methodology regarding the process of constitution and election of management structures and functions at USAMVB level, approved in the Senate meeting of 26.05.2015 which at point 4.5.2 art.33 makes reference to the election of the CSUD director (Annexes part I pdf \ Annex_I_6_Methodology regarding the process of setting up and choosing the management structures and functions at ~ 1.pdf level). Proof documents: CSUD election documents (Annex 12) Doctoral school election documents).

The competition for the position of CSUD director within IOSUD took place according to the Methodology regarding the process of setting up and choosing the management structures and functions at USAMVB level (Annex 7) which at point 4.5.6 art. 57 refers to the appointment following a competition public organized by USAMV B, in accordance with the provisions of the Code of doctoral studies of the director of CSUD.

In the senate meeting of 23.02.2016 was approved the Contest Methodology for selecting the Deans and the CSUD Director within USAMVB that regulates these elections. Point C art. 22-27 of the methodology refers to the selection of the CSUD director (Annex 8).

Proof documents regarding: Competition and publication of the position of CSUD director in the Official Gazette (Annex 14); Clarifications regarding the organization and development of the public competition for the position of CSUD Director and competition commission (Annex 119); Decision of the Competition Commission for the position of CSUD Director (Annex 120) Extract from the Decision of the USAMVB Senate regarding the approval of the report on the competition for the position of CSUD Director (Annex 121) Decision of the CSUD Director (Annex 13).

c) the Methodologies for organizing and conducting doctoral studies (for the admission ofdoctoral students, for the completion of doctoral studies);

IOSUD Regulation and ŞDIMRVA Regulation. Chapter IV of the IOSUD Regulation contains information on the selection and admission to doctoral studies and Chapter VI of the same regulation contains information on the completion of doctoral studies (Annex 10). The ŞDIMRVA regulation provides in chapter IV.I art. 9-12 regulations regarding the admission to doctoral studies (Annex 79) The admission to doctoral studies within IOSUD / IMRVA Doctoral School is made in accordance with the Methodology regarding the organization and development of the admission contest (Annex 103).

The IMRVA SD Regulation includes in Chap. VI Doctoral thesis and doctoral university studies (Annex 79) Also, within IOSUD were elaborated Norms of IOSUD USAMV B regarding the drafting of the doctoral thesis; Norms regarding the completion of doctoral studies, Procedure for the evaluation and defense of the doctoral thesis (Annex 70).

d) the existence of mechanisms for recognizing the status of a Doctoral advisor and the equivalence of the doctoral degree obtained abroad;

The recognition of the quality of doctoral supervisor and of the equivalence of the doctorate obtained in university institutes accredited abroad is made according to the Procedure of recognition by USAMVB of the didactic functions in university education / doctoral diploma and doctoral title / quality of supervisor. Doctorates obtained in university institutes accredited abroad (Annex 100).

e) functional management structures (Council of the doctoral school), giving as well



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

proof of the regularity of meetings;

IOSUD / CSUD / CSD management structures have operated regularly within IOSUD. The functionality of these management structures is demonstrated by the agendas of the CSUD and CSD meetings containing the debated documents and their resolution, the signature of the participants confirming the participation and the approval of the resolution on the debated documents (Annex 122).

f) the contract for doctoral studies;

The doctoral university contract (Annex 105) at the level of IOSUD / IMRVA doctoral school exists. The doctoral university contract concluded between the doctoral student and USAMV Bucharest.

g) internal procedures for the analysis and approval of proposals regarding the training for doctoral study programs based on advanced academic studies.

At the level of the Faculties that have doctoral supervisors in the field, there is the Development Strategy for the period 2014-2020 and in the operational plans (Plan_operational_FA_2020.pdf (agro-bucuresti.ro) Plan_strategic_FA_2014-2020.pdf (agro-bucuresti.ro) which have direct specifications for cycle III of training.

The doctoral program in Agronomy is included in the Doctoral School of Engineering and Management of Plant and Animal Resources (IMRVA) within IOSUD USAMV Bucharest. Currently, 11 doctoral supervisors are active in the field, of which 9 are holders of IOSUD (Annex 98 and Annex 98A - doctoral supervisors) (Annex 149).

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

The existence of the documents submitted for Indicator A.1.1.1 is confirmed 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

Regulation IMDVA in Chap. II art. 3 (b) includes references to the responsibilities of the CSD to adopt decisions on granting or revoking the membership of a doctoral school to doctoral supervisors and setting minimum standards of scientific performance. To head. III. 2 art. 7 (1) - (3) includes references regarding the doctoral supervisors who may be members in \$DIMRVA (Annex 79). The doctoral student's file includes the declaration on his / her own responsibility signed by the doctoral supervisor by which the legal provisions from art. 170 and art. 143 of (4) of the National Education Law no. 1/2001 and art. 65 para. (5) - (7) of the Code of doctoral studies, approved by GD no. 681/2011 (Annex 123).

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Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

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IMRVA Regulation None. V Art. 15 (1) - (10) includes references regarding the content of the doctoral studies program, duration, completion, evaluation of the number of credits obtained (Annex 79).

Regulation IMDVA in Chap. III. 2 Art. 7 (6) refers to the way of changing the doctoral supervisor. In Chap. III.1 Art. 6 (4) The IMRVA SD Regulation provides for the mediation of conflicts between the doctoral student and the doctoral supervisor (Annex 79).

The doctoral studies contract annex 1 to the IMRVA SD Regulation includes in Art. 8.1. c) the change of the scientific director in the candidacies provided by the regulation of SD IMRVA.

Also, the doctoral university contract presents at Art. 8.2. A e) and f) the right of the doctoral supervisor to refuse the guidance of a doctoral student and to his right to request the termination of the guidance relationship with a doctoral student. Art. 12 of the SDR Regulation IMRVA provides the ways to resolve conflicts between the doctoral student and the doctoral supervisor but also the conflicts related to the conclusion, execution, modification, suspension or termination of the doctoral studies contract (Annex 105).

The regulation of the IMRVA doctoral school at Chap. VI Art 18 (3) - (5) includes references regarding the elaboration of the doctoral thesis as being an original work, the author of the thesis assuming the correctness of the information and data presented in the thesis. Also, in Chapter VII Art. 23 (2) a. And Art. 24 (3) a) references are made to the obligations of the doctoral student and of the head of \$D IMRVA regarding the deontological guidance of the doctoral student. The doctoral studies contract, Annex 1 to the Doctoral School Regulations, provides in art. 8.2. B a) the scientific, professional and deontological guidance of the doctoral student. Also, in Chap. V Art 14 (2) d) j) and k) references are made regarding the scientific authorship, the observance of the professional deontology, the application of the values and principles of scientific ethics in the fields of doctorate within IMRVA SD and in Chapter VI Art. 18 (4) the doctoral student and the supervisor are informed about the liability in case of non-compliance with the quality and professional ethics standards (Annex 79). In the Curriculum Plan of the doctoral school was found the discipline "Research ethics and copyright law" and until 2018/2019 and starting with the academic year 2018/2019 in the advanced university training plan was included the discipline "Ethics and academic integrity "IOSUD used for the verification of doctoral theses the antiplagiarism program (Sistem Antiplagiat.ro) provided by MEN and accessed on the address www.doct.edu.ro. Currently, within the IMRVA Doctoral School, the doctoral theses are verified in the "Turnitin" program.

The doctoral studies within the IMRVA Doctoral School lead to the acquisition of knowledge, skills and abilities both for a research career and for the wider framework of the labor market according to Art.14, Art. 16 (5) of the \$DIMRVA Regulation. Art. 7 (1) - (4) provide for the participation of the doctoral student in scientific projects. Chapter VII Art. 23 (1) d) provides that



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

the doctoral student to have access to logistics, documentation centers, libraries and equipment of SD IMRVA and IOSUD (Annex 79).

Within ŞDIMRVA, the frequency of doctoral students is ensured by the monthly activity report, prepared by the doctoral student and endorsed by the doctoral supervisor (Annex 124).

The regulations of the doctoral schools provide in Chap. VI the amendments and completions brought to the Code of doctoral studies by GD no. 134 of March 2, 2016 (Annex 18).

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

The regulations of the Doctoral School include the documents presented and are in accordance with the requirements for Indicator A.1.1.2.

Recommendations:-

The indicator is fulfilled.

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

general description of the standard analysis.

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

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

IOSUD has and uses two computer systems to record doctoral students and their academic background:

- 1. RMU UNIC Matriculation Register contains the record of doctoral students starting from 2015-2016, with information regarding personal data, schooling (promotion, expulsion, interruption of studies, extension) scholarships, completion of studies and study documents issued (series and registration number).
- **2.** *UMS-University Management System* contains the record of students -doctoral students starting with the academic year 2009/2010, with information regarding personal data, tuition fees (Annex 125).

The situation of doctoral students is permanently updated at the level of the doctoral service and presented to the faculties, corresponding to the doctoral field.

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

It confirms the existence and efficient application of adequate information systems for the record of doctoral students and their academic path according to the requirements of indicator A. 1.2.1.

Recommendations:-

The indicator is fulfilled.

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



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

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

The doctoral theses are subject to evaluation for the verification of the percentage of similarity in the Antiplagiat.ro System provided by MEN and accessed on the address www.doct.edu.ro. and the "Turnitin" program, purchased by USAMVB (Appendix 96) and used by the user-designated person within the "Doctorate" secretariat. The results of the evaluation of the doctoral theses in the anti-plagiarism programs used can be found in Annex 126 https://www.turnitin.com/t_home.asp?login=1&svr=49&lang=ro&r=34.7172748663215.

Within the faculties within USAMVB-IOSUD, the computer program Plagiarism Detector v.1092 (https://Plagiarism-Detector.com) works, to which doctoral students can turn.

Within IOSUD / ŞD IMRVA the doctoral theses were submitted to the evaluation for the verification of the percentage of similarity in the Antiplagiat.ro System provided by MEN and accessed on the address www.doct.edu.ro. and the "Turnitin" program, purchased by USAMVB (Annex 96) and used by the user-designated person within the "Doctorate" secretariat, and the results of the evaluation of doctoral theses in the anti-plagiarism programs used can be found in Annex 126.

For the Agronomy field in the analyzed period, 54 theses were evaluated, through the antiplagiarism system, 43 the Antiplagiat.ro system, with values for CI between 1-9.9 and the IIC index of 0-4.2 and through the Turnitin system 11 theses, with values between 3-8 (Annex 126) theses respecting the legal provisions.

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

Within IOSUD / ŞD there are 2 computer programs and there is evidence of their use to verify the percentage of similarity in all doctoral theses according to the requirements of indicator A.1.2.2.

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.

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.



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

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

An essential factor for the professional training of doctoral students is represented by the development of research activities and capitalization of the obtained results. Attracting additional financial sources through research or training grants / contracts through which research equipment, participation in scientific events or publication of scientific articles is purchased.

All 11 PhD supervisors coordinated as project director / project manager. In the period 2016-2020, 13 research / development / human resources grants were carried out (Annex 144 - Grants / doctoral management contracts 2016-2020).

The doctoral students were included in the research teams of some projects carried out by the doctoral supervisors (Sfetcu Ionuţ, Moţ Andrei, Deak Iringo, Zahiu Carmen) (Annex 145).

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

The requirements for indicator A.1.3.1. are met

There are 2 grants in progress (26 SOL / 2020 PNCDI III- P2-2.1 and 04 / CQ / 2018-2021) and 13 contracts developed in the last 5 years. The grants address topics relevant to the field (Consultancy services for updating / revising the code of good agricultural practice for the protection of waters against nitrate pollution from agricultural sources; Expert system for monitoring risks in agriculture and adapting conservative agricultural technologies to climate change) and also involved PhD students.

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.

PhD students included in the research teams of projects carried out by doctoral supervisors were remunerated for their work, and fee-paying students who support their doctoral studies with their own funds or are funded by research or economic units, so that the ratio between doctoral students they also benefited from other funds than the governmental ones and the total number of doctoral students in the analyzed period is 23%. (Annex 156 - doctoral students with fee).

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

The reported data are confirmed according to Annexes 145 and 156.

Recommendations:



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

The indicator is fulfilled.

Performance Indicator *A.1.3.3² 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.

PhD students currently benefit from a financial support for professional training, from doctoral grants, of 3500 lei / year for travel, fees for participation in scientific events, publication of specialized articles, consumables (Annex146- income statement expenses Agronomy). The financial support from doctoral grants and fees for the 5 years subject to evaluation is on average 10.45%.

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

According to the financial data, the requirements of the Indicator * A.1.3.3 are met Recommendations:-

The indicator is 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.

general description of the standard analysis.

The material basis of IOSUD / Doctoral School within the research centers and laboratories, Resorts and teaching farms is analyzed on the basis of the reported documents, the discussions with the staff involved and the field visit.

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.

The doctoral school through IOSUD-USAMV has the adequate material base for the

² The indicators marked with an asterisk (*) hold a special status, referring exclusively to the evaluation of doctoral studiesdomains, 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.



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

development of doctoral studies, top endowments, special equipments in accordance with the mission and the assumed objectives.

Within the doctoral field of Agronomy, the leading PhD teachers and doctoral students carry out their scientific research activity in research centers and laboratories equipped with high-performance equipment in the laboratories and research centers of the faculties, QLab Center, greenhouses and research stations of USAMVB. The research centers and laboratories are set out in the Annexes (Annex 49) (Annex 102) (Annex 147). A series of laboratories in which doctoral students can carry out their research are registered and presented publicly in the ERRIS research platform (Annex 147) and on the website of the university / faculties.

After 2016, equipment and consumables were purchased with funds from both budget allocations and from the own revenues of the faculties or from the research contracts carried out (computers, scales, stereomicroscope, OCD analyzer, agricultural equipment within the Moara Domnescă Teaching Farm, etc.), which completed the existing material base and allowed the development of expressions specific to the topic of doctoral theses in the faculty.

Within the field there are three computer laboratories equipped with modern computers containing the corresponding software programs (Annex 147).

The doctoral supervisors are members of two CNCSIS accredited research centers (Research Center for Sustainable Agriculture, Rural Engineering and Environmental Protection).

For the documentation of doctoral students, permanent access is provided to the USAMV Library (Annex 46) where there is a rich book fund, and to the faculty libraries. To these are added the bibliographic materials from the libraries of the doctoral supervisors which are made available to the coordinated doctoral students.

PhD students have access to international databases through the ANELIS PLUS 2020 program (http://anelisplus2020.anelisplus.ro/; https://www.e-nformation.ro/profil-acces) by obtaining individual access data and by use of college computers.

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

The research infrastructure presented complies with the standards necessary for the activity of doctoral students. In the last 5 years, acquisitions of laboratory furniture, computers, apparatus and equipment have been made. PhD students have access to IOSUD libraries and international databases through the ANELIS PLUS 2020 program.

Recommendations:-

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.

general description of the standard analysis.

For the field of Agronomy, the activity of the doctoral supervisors, the degree of fulfillment of the minimum CNATDCU standards, the international visibility of the teachers are analyzed.



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

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.

Within the doctoral field of Agronomy, 11 PhD supervisors currently work, quality obtained according to the law (Annex 149) - (Prof. CÎMPEANU, PhD Sorin Mihai, Prof. CIONTU Costică, PhD, Prof. Dr. CRISTEA Stelica, Prof. Dr. DONA Ion, Prof. Dr. Prof. ILIE Leonard, Prof. PhD, ION Viorel, Prof. Dr. MARIN Doru Ioan, Prof. Dr. MIHALACHE Mircea, Prof. Dr. Dr. habilitat PETRESCU Nicolae, Prof. Univ. Dr. habil. SEVASTEL Mircea, Prof. Univ. Dr. STAN Vasilica).

All (100%) meet the CNATDCU minimum standards, achieving a score between 1540.3 and 6434.95 points, compared to 420 points the minimum value according to order 6129/2016. (Annex 150 - Compliance with standards).

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

All PhD supervisors (100%) in the field of Agronomy meet CNATDCU standards. *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.

A number of 9 doctoral supervisors (81.8%) out of the 11, are holders within IOSUD, two are affiliates / associates (Prof.univ dr. DONA Ion who was holder of IOSUD until 2018 and Prof.univ PETRESCU Nicolae, PhD - holds a degree at Valahia University, from Târgoviște) (Annex 149).

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

The requirements of indicator A.3.1.2 are met, respectively 81.2% of the doctoral supervisors are holders with employment contract for an indefinite period within IOSUD.

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.



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

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

All PhD supervisors are specialists in the PhD field of Agronomy. The proof of the professional competencies of the doctoral supervisors is highlighted both by the CV (Annex 98 A) and the list of works (Annex 153) and by fulfilling the minimum standards.

The specialized disciplines within the doctoral students' training program (Annex 151) are supported by doctoral supervisors in the field of Agronomy who have a teaching degree (Annex 149, curriculum and subject sheets).

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

Analiza documentelor confirmă îndeplinirea cerințelor indicatorului A.3.1.3.

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 programs does not exceed 20%.

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

Out of the 11 doctoral supervisors in the field of Agronomy, 10 coordinate between 1 and 7 doctoral students at the same time and only one supervisor (9%) has 10 doctoral students under his guidance. There are no situations of exceeding the maximum number of 12 doctoral students coordinated at the same time (Annex 152).

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

A number of 10 PhD supervisors are coordinated by a maximum of 8 PhD students. A single doctoral supervisor coordinates 10 PhD students (9%).

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.

general description of the standard analysis.

The scientific production of doctoral supervisors and their international visibility are analyzed.

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-levelcontributions 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



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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-leadingwith universities abroad. For Arts and Sports and Physical Education Sciences, doctoral thesis advisors shall 7prove 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.

PhD supervisors in the field of Agronomy have a rich scientific activity (Annex 153 - 5 year publications) visible internationally, including in the last 5 years materialized by ISI indexed or listed articles, patents, books published abroad, membership in scientific committees of publications and international conferences, member of the boards of international professional associations (2017-2021, President, University Agency of La Francophonie). Of the 11 leaders, 8 (72.7%) reported at least 5 WoS indexed publications, in journals with FI or other achievements, all 11 leaders (100%) have international visibility through membership in the scientific committees of international publications and conferences. (Annex 154).

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

The reported data are compliant, the requirements of indicator A.3.2.1 are met, over 50% of PhD supervisors have reported at least 5 WoS indexed articles with FI, and all PhD supervisors have international visibility, are members of the scientific committees of publications and international conferences.

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.

The activity of the doctoral supervisors from 2016-2020 is a significant one compared to the minimum CNATDCU standards. All 11 exceed the score of 105 points (25% of the minimum standards), accumulating a total score between 324.2 and 2185.92 (exceeding 3 to 20 times the minimum requirements). From the analysis on each type of activity (A1, A2, A3) from the standards according to Order 6129/2016 it results that 9 of the 11 doctoral supervisors (81.8%) far exceed the score by the minimum score for each type of activity. (Annex 155 - Minimum score 25% minimum standards).



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

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

Over 81% of the doctoral supervisors assigned to the field of doctoral studies Agronomy, have achieved at least 25% of the score required by the minimum CNATDCU standards in force at the date of evaluation.

Recommendations:-

The indicator is fulfilled.



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

Domain B. EDUCATIONAL EFFECTIVENESS

general description of the standard analysis.

For the field of Agronomy within the Doctoral School of Engineering and Management of Plant and Animal Resources, the correct and complete information regarding the doctoral studies program is provided to the candidates for this program, to the university community and to all those interested.

It is ensured the publication on the internet of all the necessary information regarding the doctoral university study program, such as: the doctoral school regulations; information on the content of doctoral study programs; the model of the framework contract for doctoral studies; information on doctoral supervisors; information regarding the doctoral theses, respectively elaboration standards, procedures and criteria for their evaluation; summaries of doctoral theses to be defended publicly, as well as the date, time and location of the public dissertations, at least 20 days before their dissertation; the addresses to which the completed doctoral theses can be accessed, published on a site administered by MEN; information on the process of obtaining the authorization certificate.

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.

Graduates of master's degree programs from other universities, both in the country and abroad, also participate in the competition for admission to doctoral studies organized by IOSUD. The number of candidates registered for the admission competition was higher than the number of places financed from the budget put up for competition, in these conditions there were also doctoral students who occupied places financed under a fee.

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.

In the last five years, 2015-2020, for the field of doctoral studies Agronomy were allocated between 13 and 19 places financed from the state budget, with an average of 17 places, the candidates being graduates of both master's degree programs within USAMV B, as well as master's programs from other higher education institutions in the country.



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

The number of candidates has exceeded the number of budgeted places, the ratio between the number of candidates in the last five years, and the number of places financed from the budget put up for competition in the field of doctoral studies Agronomy is 1.23 so there were candidates who opted for the places financed in fee regime, on average the number of doctoral students with fee was four / academic year (Annex 156).

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

The ratio between the number of candidates and the number of budgeted places was on average 1.23.

Recommendations:-

The indicator is fulfilled.

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

general description of the standard analysis.

Considering the university autonomy, the Organizing Institution of Doctoral University Studies, legally represented by USAMV B, organizes a competition for selection and admission of doctoral students, respecting the legislation in force that provides the right to study of every citizen. At the same time, IOSUD and the IMRVA doctoral school give equal opportunities to all young people, regardless of the environment they come from, race, sex or religious options, etc.

The admission procedure and the selection of doctoral candidates, the field of doctoral studies Agronomy, within the doctoral school of Engineering and Management of Plant and Animal Resources is performed according to the legislation in force and the provisions of the Methodology on organizing and conducting the admission contest (Annex 103). Only graduates with a master's degree or equivalent, from the country or abroad, have the right to participate in the procedure for admission to doctoral university studies, according to art. 152 paragraph (2) of Law no. 1/2011. The specific knowledge of the field of doctoral studies Agronomy and the research topic of the candidate are verified through the admission contest. The admission criteria, including those for evaluation, are set out in detail and prior to the organization of the admission competition (Annex 104). The doctoral school ensures the transparency of the selection and admission procedures for doctoral studies and guarantees access to information and accessible means, including through http://www.usamv.ro/studii-de-doctorat/, providing the necessary information the university community and the public.

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.

Admission to the doctoral study program in Agronomy is made according to the



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Admission Methodology (Annex 103).

The selection of candidates is made on the basis of criteria that take into account the proposed research topic (Annex 131), as well as their vocation as researchers.

Holding the interview with the applicant is a mandatory part of the admission procedure (Annex 104).

The admission commissions to the doctoral studies program, appointed at the level of the faculties include, in addition to the doctoral supervisor, also 3 specialists in the doctoral field Agronomy.

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

Admission is made according to the specifications of the indicator * B.1.2.1.

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 admission does not exceed 30%.

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

Within the Doctoral School of Engineering and Management of Plant and Animal Resources, Agronomy, the dropout rate among doctoral students enrolled in doctoral studies, in the period 2015-2020, was 3%. Thus, during this period, three expelled doctoral students were registered (Annex 157).

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

The expulsion rate registered in the field is only 3%.

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.

The completion of the training program based on advanced university studies lasts for a period of 3 months and leads to the granting of a number of 30 transferable credits for doctoral students in the doctoral fields within the IMRVA SD. The training program based on advanced university studies includes disciplines established by the training program and specialized disciplines provided in the annexes of the curriculum. The evaluation of the courses from the advanced university training plan is done with the grades "Very good", "Good", "Satisfactory" and "Unsatisfactory".

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;



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

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.

The courses in the curriculum of the doctoral schools within IOSUD include disciplines with reference to the research methodology, statistical data processing, elaboration of the doctoral thesis, ethics and academic integrity.

In the first year, doctoral students go through a training program (Annex 151 - Curriculum, subject sheets) which involves four subjects, three of a general nature (Methodology of scientific research, Management of the elaboration of the doctoral thesis, Ethics and academic integrity) and one of specialty, established together with the doctoral supervisor, depending on the topic of the doctoral thesis.

All these disciplines, provided in the training program based on advanced university studies, are relevant for the training of doctoral students in scientific research.

To these are added the individual training program of the doctoral student, which includes the research tasks and the reporting of the results obtained (Annex 158 - Individual program).

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

The training program based on advanced university studies includes four disciplines relevant to the training in scientific research of doctoral students, one of which is the Methodology of scientific research.

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 of Engineering and Management of Plant and Animal Resources is permanently concerned with ensuring the quality of teaching and research and uses the specific structures within the USAMVB (Annex 63) (Annex 64). The doctoral school of Engineering and Management of Plant and Animal Resources paid special attention to the observance of professional ethics and deontology at the level of teaching and research staff and doctoral students. Thus, until the academic year 2017/2018, in the advanced university training plans, the mandatory discipline "Research ethics and copyright legislation" was found (Annex 91) and starting with the academic year 2018/2019 it was replaced with the discipline " Ethics and academic integrity "(Annex 92) according to the law (Annex 93).

Within the training program, in the first year of studies, there is a discipline in the curriculum that addresses ethics in scientific research and intellectual property - Ethics and academic integrity (Annex 151 - Discipline sheet).



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

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

The training program based on advanced university studies includes the discipline Ethics and academic integrity

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 activities

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

The training program based on advanced university studies provides both disciplines that aim to train the skills necessary for the doctoral student to design and conduct experiences, interpret the results, disseminate them and develop the doctoral thesis, respecting professional ethics and deontology, and disciplines specialized (Annex 151 - Curriculum, subject sheets).

Through the training program based on advanced university studies that takes place over a period of 3 months, doctoral students obtain 30 transferable credits, and the individual scientific research program doctoral students obtain 150 credits, totaling 180 ECTS. The evaluation of the courses from the advanced university training plan is done with the grades "Very good", "Good", "Satisfactory" and "Unsatisfactory".

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

Mechanisms are provided to ensure that the training program, based on advanced university studies, aims at "learning outcomes".

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.

During the doctoral studies, the doctoral student is coordinated by the coordinating teacher and supported by a guidance committee. The composition of the guidance committee for doctoral students within SD IMRVA is established by the doctoral supervisor after consultation with the doctoral student and is composed of teachers, researchers whose activity is recognized nationally and internationally according to art. (1) of the Code of doctoral studies (Annex 99).

Throughout the doctoral training period, all PhD students in the field of Agronomy benefit from the guidance of a functional guidance committee.

The doctoral students maintain the connection and collaboration with the members of the



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

commissions for carrying out some research aspects or for obtaining information related to working methods, interpretation of results, for the joint production and publication of scientific papers.

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

PhD students benefit throughout the training period from the guidance of a functional guidance committee composed of the doctoral coordinator and three other specialists.

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 analyzed period, 2015-2020, in the field of Agronomy, the ratio between the number of doctoral students and teachers / researchers who provide guidance / counseling was between 0.71-1.15: 1 (Annex 159 - Doctoral Guidance Commissions).

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

The maximum ratio recorded for the reporting period was 1.15: 1.

Recommendations:-

The indicator is fulfilled.

CriterionB.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.

general description of the standard analysis.

The scientific and research mission of the Doctoral School of Engineering and Management of Plant and Animal Resources is that of USAMVB, based on its own scientific strategy and research programs to contribute, through the results obtained, to the scientific and technological progress of agriculture. the agri-food industry, the environment and the Romanian rural area and, thus, to the sustainable development of Romania in the European space.

During the evaluated period, the results of the scientific research were capitalized, depending on their character, through scientific publications, consultancy and specialized assistance, etc. Coordinating teachers and PhD students annually publish results of their own scientific research in articles published in ISI scientific journals (with and without impact factor), journals indexed in various international databases (BDI - e.g. CAB International).

The main scientific achievements were materialized in participation in national and international scientific conferences, publication of scientific papers in national and international specialized journals listed ISI and BDI, obtaining patents, participation in national and



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

international scientific research projects, obtaining awards for achievements special scientific.

The main scientific achievements of the leading PhD teachers in the field of Agronomy are presented in (Annex 116), and the main scientific achievements of doctoral students in the doctoral fields within the doctoral school of IMRVA can be found in (Annex 117). Also, the research results were presented (scientific communications) at domestic and international congresses, conferences and symposia. Some of the results of scientific research have been awarded following participation in fairs and exhibitions, and others have been patented (Annex 110).

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.

In the period 2015-2020 in the field of doctorate Agronomy, 72 doctoral students defended their theses and obtained the title of doctor.

For each doctoral student a published article was proposed for analysis, the articles were published both in ISI listed / indexed journals and in journals indexed in BDI (Annex 160 - Statistics on obtaining a doctorate; of doctor).

Items selected for analysis:

- -Chițoi C., C. Ciontu, 2017. Influence of different tillage systems on the behavior of a corn hybrid cultivated in the area Gălățui-Călărași. Scientific papers, Series A. Agronomy, Vol. LIX, USAMV Agronomiy, București, ISSN 2285-5785 p.5-28.
- -Sestras P., Bondrea M. V., Cetean H., Sălăgean T., Bilaşco Ş., Naș S., Spalevic V., Fountas S., Cîmpeanu S. M.,2018. Ameliorative, Ecological and Landscape Roles of Făget Forest, Cluj-Napoca, Romania, and Possibilities of Avoiding Risks Based on GIS Landslide Susceptibility Map. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 46(1), p.292-300. https://doi.org/10.15835 /nbha46110866.
- -**Oprea C.A.,** Bolohan C., Marin D.I., 2017. Effects of fertilization and row spacing on grain sorghum yield grown in South-Eastern Romania. AgroLife Scientific Journal, Volume 6, Number 1, ISSN 2285-5718, p. 173-177.
- -**Dudoiu R**., Cristea S., Lupu C., Popa D., Oprea M, 2016. Micoflora associated with maize grains during storage period. AgroLife Scientific Journal, Volume 5, Number 1, ISSN 2285-5718, p.63-68.
- -Horia Nicolae CIOCAN, Ioan Niculae ALECU, Ion DONA, 2020, Comparative study regarding the socio-economic development potential of rural areas in Hunedoara County, Scientific Papers Series Management, Economic Engineering in Agriculture and Rural Development, Vol. 20, Issue 2, 2020, PRINT ISSN 2284-7995, E-ISSN 2285-3952, 167-172.
 - analysis of the facts, the findings from the assessed institution's documents and the



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

evaluation visit itself

For doctoral students who have obtained a doctorate in the last 5 years there is at least one article or other contribution. All five articles selected for analysis present significant original contributions to the field of Agronomy.

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.

In order to disseminate the results of scientific research, PhD students participated in various international scientific events held both in the country and abroad (International Conference Agriculture for Life / Life for Agriculture - USAMV Bucharest; European Congress of Biotechnology, International Symposium Prospects For 3rd Millennium Agriculture - Cluj-Napoca, conferences of some research institutes, etc.), for many of such participations receiving support from USAMV B.

Under these conditions, the doctoral students who completed the doctoral thesis in the analyzed period (2015-2020) presented at least one paper at prestigious international scientific events organized in the country or abroad.

The ratio between the number of presentations of doctoral students who completed their doctoral studies in the evaluated period made at international scientific events (94) and the number of doctoral students who completed their studies during this period (72) is 1.3 (Annex 163 - List communications).

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

The ratio between the number of presentations of doctoral students who completed their doctoral studies in the evaluated period (last 5 years) is 1.3.

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.

general description of the standard analysis.

The number of participants' participations in the commissions for public defense of doctoral theses is analyzed.

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



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

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 public defense of the doctoral theses, commissions of specialists in the field of Agronomy are appointed (5 members: president, scientific leader, 3 specialists, of which at least 2 from outside the university), which will evaluate their quality.

For the evaluation of the doctoral theses, the IMRVA Doctoral School used a number of 73 specialized referents, coming from other universities or from specialized research institutes.

The situation of the scientific references involved in the analysis of the theses defended in the field of Agronomy, in the evaluated period, is presented in Annex 164 - References of commissions.

The number of doctoral theses coordinated by the same doctoral supervisor assigned to a referent from another higher education institution did not exceed two in a year.

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

There are no more than 2 participations / year of a referent in the analysis of theses coordinated by the same doctoral supervisor.

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.

In the evaluated period, 2015-2020, in the field of Agronomy, 72 doctoral theses were defended, all of which were validated.

The ratio between the number of doctoral theses assigned to an external scientific referent and the total number of theses defended in the field of Agronomy, in the period 2015-2020, varied between 0.01 and 0.13 (Annex 164 - References to commissions), the references participating, cumulated in the 5 years, from 1 to 9 commissions for the analysis of doctoral theses.

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

The maximum ratio registered between the number of doctoral theses assigned to an external scientific referent and the total number of theses defended in the field of Agronomy was 0.13.

Recommendations:-

The indicator is fulfilled.



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

Domain C. QUALITY MANAGEMENT

general description of domain analysis

Within USAMV B, the process of evaluation and quality assurance is continuous. The current strategy of USAMV B aims to develop a culture of internal quality. The quality assurance of the following priority activities is permanently considered: teaching-learning, scientific research, management and administration, services, quality management. Regarding the teaching-learning activity, the USAMV B quality assurance policy emphasizes the activity centering on the student. For this, the students are partners in the quality evaluation processes, being represented in the CEAC structures at university, faculties and departments level. The executive activity regarding quality assurance (elaboration of regulations, procedures, self-assessment reports, etc.) is carried out in collaboration with the Quality Assurance Department (DAC), which operates in accordance with the legislation in force and based on its own regulation (Annex 64) and prepares an annual report (Annex 65).

USAMVB, as the legal representative of IOSUD, the doctoral school of Engineering and Management of Plant and Animal Resources pays special attention to identifying, satisfying the requirements, the demands of the labor market and cultivating communication with it. USAMV B establishes, implements, updates and maintains the quality assurance policy. The management of USAMV B is constantly concerned with the continuous improvement of the organization and execution of activities, feedback, with priority on the main dimensions: education, scientific research and social inclusion.

The quality of the educational process in USAMV B is achieved through the annual internal evaluation of the study programs from all forms of education, based on the quality standards recognized at national and international level; external evaluation of study programs and compatibility of the university's educational offer with that of the universities in the European Union and not only, from the perspective of the conferred competences, the quality and actuality of the accumulated knowledge, the developed practical skills and / or .

The USAMVB aims to implement, maintain and improve the Quality Management System at the level of all departments of the University, to support the achievement of internal objectives regarding quality and to meet the quality requirements imposed by national and international standards in the field of education.

In order to facilitate the monitoring, evaluation and continuous development of the internal quality assurance system within USAMV B, the EVCAL platform was created, for quality evaluation within all faculties, for all study programs (bachelor, master, doctorate), evcal.usamv .ro.

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

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.



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

The internal quality assurance system at the level of USAMVB, the legal representative of IOSUD, has the following objectives: supporting the mechanism of continuous improvement of teaching-learning and research performances; improving a culture of quality management in the educational process with the participation of all USAMV employees in Bucharest; encouraging excellence in the professional activity of teachers.

Within the USAMV in Bucharest, the Quality Assurance Department operates, which is part of the executive structure of the university and which has the mission of coordinating and achieving the compliance of the quality management system with the reference standards. The Quality Assurance Department carries out the decisions of the Quality Assessment and Assurance Commission of USAMV B (Annex 63) and the Vice President for Quality Assessment and Assurance and carries out current activities related to the development, implementation, maintenance and quality assurance at the university level. . The Department for Quality Assurance is subordinated to the Rector of USAMV B, as the person directly responsible for quality management and has functional and collaboration relations with the academic and administrative structures of the University.

The system for evaluating the activity of teachers is a necessity in ensuring the quality of higher education so that every person in the academic community can align with the rapid changes in their area of competence. The evaluation of the quality of teachers is approached as a periodic, transparent and formative process, destined to guarantee the improvement and maintenance to high standards of their level of professional and didactic training. Within USAMV in Bucharest, the evaluation of teachers' activity is based on the following documents: self-evaluation form, teacher evaluation form by students, collegiate evaluation form, evaluation sheet by academic management (department director) (Annex 72; Annex 73; Annex 74; Annex 75).

The internal quality assurance system within USAMVB leads to the assurance of high quality standards regarding the institutional and managerial capacity for the development of a high-performance higher education within USAMV in Bucharest.

The use of the information produced by the internal quality assurance system contributes: to the evaluation of the individual professional performances of the teaching staff for the didactic activity, the scientific and research activity, the participation in the activities of the department, of the academic community, of the local community and of the economic-social environment. and other relevant activities associated with the quality of teacher; to identify the changes that are required in the subject sheets and in the Curriculum, in order to improve the quality in this field (Annex 59).

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;



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

- (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 quality of the educational process in USAMV B is achieved through the annual internal evaluation of the study programs from all forms of education, based on the quality standards recognized at national and international level; external evaluation of study programs and compatibility of the university's educational offer with that of the universities in the European Union, and not only, from the perspective of the conferred competences, the quality and timeliness of the accumulated knowledge, the practical skills developed and / or the attitudes formed of studies.

a) the scientific work of Doctoral advisors

USAMV B is concerned with the training of teachers, doctoral supervisors in IOSUD doctoral schools, therefore, and doctoral supervisors in the fields of the Doctoral School of Engineering and Management of Plant and Animal Resources, to increase the quality of services provided to society (Annex 89) .

USAMV B aims to implement, maintain and improve the Quality Management System at the level of all departments of the University, to support the achievement of internal objectives regarding quality and to meet the quality requirements imposed by national and international standards in the field of education.

Teachers, implicitly leading doctoral teachers, are evaluated annually through the platform http://projectprometheus.usamv.ro. In the annual evaluation reports of the faculties and in the annual report of the rector of the university there is information regarding the activity of the coordinating teachers of the doctorate, of the guidance activity and of their scientific achievements.

IOSUD has developed a self-assessment procedure for doctoral schools. The art. 20-22 of the procedure stipulates the internal evaluation of the performances and in the guidance of the doctoral students (Annex 90).

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

The doctoral school through IOSUD-USAMV has the adequate material base for the development of doctoral studies, top endowments, special equipments in accordance with the mission and the assumed objectives.

Within the doctoral field of Agronomy, the leading PhD teachers and doctoral students carry out their scientific research activity in research centers and laboratories equipped with high-performance equipment in the laboratories and research centers of the faculties, QLab Center, greenhouses and research stations of USAMVB. . The research centers and laboratories



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

are presented in the annexes (Annex 49; Annex 102; Annex 147). A series of laboratories in which doctoral students can carry out their research are registered and presented publicly in the ERRIS research platform (Annex 147) and on the website of the university / faculties.

The self-evaluation procedure of the doctoral schools includes at art. 6 and the verification and improvement of the material base of USAMVB as a tool for accomplishing the mission of the doctoral schools (Annex 90).

c) the procedures and subsequent rules based on which doctoral studies are organized

Doctoral schools within IOSUD are evaluated according to a Self-Assessment Procedure of doctoral schools (Annex 90). The self-assessment procedure of the doctoral schools includes in point 3 the reference documents on the basis of which the doctoral studies are organized.

d) the scientific activity of doctoral students

For doctoral students - the field of Agronomy within the Doctoral School of Engineering and Management of Plant and Animal Resources, the scientific activity is regulated by the doctoral studies contract (Annex 105) and the activity regulation.

e) the training program based on advanced academic studies of doctoral students

The specific structure for evaluation and quality assurance, at institutional level, is the Quality Assessment and Assurance Commission (CEAC). It carries out its activity, in accordance with the national legislation in force, on quality assurance and on the basis of its own regulation (Annex 63). CEAC works in collaboration with the corresponding commissions set up at the level of each faculty and at the level of the departments, in order to apply the quality evaluation procedures. The national legislation, the ARACIS procedures, as well as the exchanges of experience with universities in the country and, especially, abroad, were the basis for the realization of USAMV B's own quality assurance policy and strategy.

Within USAMV B, any approach related to the study programs involves completing stages of analysis and approval, so that they correspond to the strategic objectives of the University and, at the same time, the interests of students and employers.

The initiation, approval, monitoring and evaluation of study programs is carried out according to the provisions of the regulation on the initiation, approval, monitoring and periodic evaluation of university study programs (Annex 67).

f) social and academic services (including for participation at different events, publishing papers etc.) and counselling made available to doctoral students.

Social and academic support services, as well as counseling exist at the level of USAMV B, the awarding of student scholarships is done according to the regulations (active students who perform in the training process and students who participate in volunteer activities are stimulated). At the same time, students whose social situation is difficult are supported by social scholarships or other means (Annex 55 - Regulation on the award of scholarships and other forms of material support for students within USAMV B). Students are supported by the Student Entrepreneurship Society within USAMV B for the development of entrepreneurship and their participation in various entrepreneurship courses.

Within USAMV B there is a Career Counseling and Guidance Center that supports the strategy and mission of USAMV B in the area of vocational training coming to the support of



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

students, both during and after their studies (Annex 167 - Regulation of the counseling center), doctoral students can address the specialists working in the center to solve various problems that may arise during the training period.

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

The doctoral school in which the field of doctoral studies in doctoral agronomy falls is proof of the constant development of the process of evaluation and internal assurance of its quality.

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.

At the level of IOSUD and of the IMRVA doctoral school, within CSUD and of CSD are included doctoral students, chosen according to the Methodology regarding the process of constitution and choice of structures and functions at USAMVB level. PhD students are represented for positions in the CSUD by universal, direct and secret ballot, all doctoral students having the right to vote and to be elected (Annex 12).

PhD students are represented for positions in the CSD by universal, direct and secret ballot, all doctoral students having the right to vote and to be elected (Annex 17).

The identification of the needs of doctoral students and their level of satisfaction with the doctoral program is achieved through discussions with doctoral supervisors and members of the guidance committee and through the mechanisms developed at the level of the Doctoral School.

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

Recommendations:-

The indicator is fulfilled.

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

general description of the standard analysis.

The doctoral school of Engineering and Management of Plant and Animal Resources within IOSUD offers transparency regarding the doctoral study programs to the candidates for these programs, to the university community and to other interested natural or legal persons.

The doctoral school, with the logistical support of IOSUD, ensures the publication on the internet of all the necessary information regarding the doctoral university study programs,



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

http://www.usamv.ro/studii-de-doctorat/, such as: the doctoral school regulations; information on the content of doctoral study programs; the model of the framework contract for doctoral studies; information on doctoral supervisors; information regarding the doctoral theses, respectively elaboration standards, procedures and criteria for their evaluation; summaries of doctoral theses to be defended publicly, as well as the date, time and location of the public dissertations, at least 20 days before their dissertation; the addresses to which the completed doctoral theses can be accessed, published on a site administered by MEN; information on the process of obtaining the authorization certificate.

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:

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

On the USAMV B website there is an area dedicated to doctoral studies where candidates and doctoral students find the necessary information, related to: doctoral school regulations, doctoral admission, admission schedule, regulations, content of study programs, doctoral supervisors for each field, conditions elaboration of the doctoral thesis, links for the summaries of the defended doctoral theses, etc.

https://www.usamv.ro/index.php/ro/educatie/programe-de-studii?layout=edit&id=114

a) the Doctoral School regulation

http://www.usamv.ro/images/Programe de studii/Doctorat/2021/Legislatie/Regulament I MRVA.pdf

b) the admission regulation

http://www.usamv.ro/images/Admitere/2020/Metodologie admitere 2020 2021f-.pdf

c) the doctoral studies contract

http://www.usamv.ro/images/Programe_de_studii/Doctorat/2021/Legislatie/Regulame_nt_IMRVA.pdf

d) the study completion regulation including the procedure for the public presentation of the thesis

http://www.usamv.ro/images/Programe de studii/Doctorat/2021/Legislatie/PROCEDU RA evaluare sustinere teza de doctorat.pdf

e) the content of training program based on advanced academic studies

http://www.usamv.ro/images/Programe de studii/Doctorat/2020/Plan invatamant I MRVA RO.pdf

http://www.usamv.ro/images/Programe de studii/Doctorat/2020/Plan invatamant I MRVA EN.pdf

f) the academic and scientific profile, thematic areas/research themes of the Doctoral advisors within the domain, as well as their institutional contact data



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

http://www.usamv.ro/images/Programe de studii/Doctorat/2020/Lista conducatori de doctorat .pdf

http://www.usamv.ro/images/Programe de studii/Doctorat/2021/Scoli doctorale/Te me de cercetare.pdf

g) the list of doctoral students within the domain with necessary information (year of registration; advisor)

http://www.usamv.ro/images/Programe de studii/Doctorat/2021/Scoli doctorale/List a studenti doctoranzi IMRVA.pdf

h) information on the standards for developing the doctoral thesis

http://www.usamv.ro/images/Programe de studii/Doctorat/Norme privind redactare a tezelor de doctorat.pdf

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

http://www.usamv.ro/index.php/ro/educatie/programe-de-studii?layout=edit&id=114

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

All information is public on the university / IOSUD website

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.

general description of the standard analysis.

Doctoral students in the field of Agronomy - Doctoral School of Engineering and Management of Plant and Animal Resources have access to all the resources necessary for the development of doctoral studies in good conditions. They have free access to platforms with academic databases relevant to the field of study, they have access to existing libraries within USAMV B, also, to ensure the access of all students to learning resources USAMV B has concluded several collaboration agreements with scientific institutions, which have valuable libraries and with which, moreover, it maintains a tradition of scientific and academic collaboration.

Doctoral students are allowed access to the scientific research laboratories within the institution, in this sense IOSUD has also concluded a series of collaboration agreements with other scientific research and production institutions.

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.

In order to scientific documentation, all doctoral students have free access to the ANELIS PLUS 2020 database platform (Annex 48) Online resources (usamv.ro) www.anelisplus.ro,



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

(http://www.biblioteca-usamvb.ro/baze -de-data / anelis-plus (Science Direct Freedom Collection; SpringerLink Journals; Clarivate Analytics; Scopus; Ebsco - Academic Search Complete; Ebsco - Business Source Complete; CAB Abstracts; CABI VetMed Resource; Nature Journals), as well as in scientific journals of the university:

http://agronomyjournal.usamv.ro/; http://agrolifejournal.usamv.ro/
http://horticulturejournal.usamv.ro/; http://animalsciencejournal.usamv.ro/
http://biotechnologyjournal.usamv.ro/; http://managementjournal.usamv.ro/.

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

Students' access to information on the database platform is free and open (ANELIS PLUS 2020)

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.

PhD students have access, upon request, to the electronic system for verifying the degree of similarity with other existing scientific creations - Plagiarism Detector v.1092 (https://Plagiarism-Detector.com) which operates within the faculties, to the TURNITIN software within the "Doctorate" office, through the account administrator:

https://www.turnitin.com/t home.asp?login=1&svr=49&lang=ro&r=34.7172748663215

Also, within the faculties, in order to verify the similarity of the scientific papers presented for publication in specialized journals, there is a license for the computer program Plagiarism Detector.

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

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.

USAMV B provides the material base necessary for scientific research and supports the realization of research-development-innovation projects as well as a favorable climate for



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

scientific research and development. Also, within USAMV B, legal representative of IOSUD were established and supports the development of scientific research centers and laboratories, around which the IMRVA doctoral school was developed (Annex 102).

During the training period through doctoral studies, doctoral students have free access to the existing infrastructure in research laboratories and those with a dual purpose, teaching and research, upon request and according to the work program of the laboratory (Annex 138 - Laboratory access).

Also, PhD students in the field of Agronomy have access to the infrastructure of research and / or production units with which IOSUD has concluded collaboration agreements (Annex 148 - Collaboration Agreement).

Within the doctoral field of Agronomy, the leading PhD teachers and doctoral students carry out their scientific research activity in research centers and laboratories equipped with high-performance equipment in the laboratories and research centers of the faculties, QLab Center, greenhouses and research stations of USAMVB. The research centers and laboratories are presented in the annexes (Annex 49; Annex 102; Annex 115).

A series of laboratories in which doctoral students can carry out their research are registered in the ERRIS research platform (Annex 115).

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

PhD students have free access to the existing infrastructure in research laboratories and those with a dual purpose, teaching and research, upon request and according to the work program of the laboratory.

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.

general description of the standard analysis.

IOSUD partnership agreements are analyzed in Erasmus + programs and general bilateral agreements according to which mobilities have taken place and which may target the realization of mobilities.

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



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

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.

In order to develop educational dialogue and partnerships with higher education and research institutions around the world, the International Relations Service within USAMV B is constantly concerned with identifying relevant institutions and universities, in order to establish cooperation agreements leading to expanding the internationalization process, for the benefit of all parties involved but also for openness to multiculturalism and diversity (Annex 38). Under the Erasmus + program, PhD students and PhD supervisors carried out mobility at various Universities in Italy, Germany, Austria, Greece, Spain (Annex 39).

IOSUD has concluded agreements in Erasmus + programs and general bilateral agreements according to which mobilizations have taken place and which may aim at the realization of mobilities (Annex 38).

The situation of the doctoral students carrying out a training internship abroad or another form of mobility such as participation in international conferences is presented in Annex 166 - Mobility.

During the analyzed period, 2015-2021, in the field of Agronomy 6 doctoral students completed training courses and 16 participated in international conferences. If we take into account the number of PhD students who have completed their theses, the share of mobility is 30.5%.

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

IOSUD has concluded agreements in Erasmus + programs and general bilateral agreements according to which mobilizations have taken place and which may aim at the realization of mobilities

Within the Erasmus + program, doctoral students and doctoral supervisors carried out mobilities at different Universities in Italy, Germany, Austria, Greece, Spain.

the share of mobility is 30.5%.

Recommendations: Increasing the number of doctoral students participating in training courses abroad by developing collaboration agreements and financial support from IOSUD.

The indicator is fulfilled/partially 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.

Recognized experts from prestigious foreign institutions were invited to the Summer Schools organized within the USAMV B projects: Federal Research Center for Agriculture, Tanikon Switzerland, Leibniz Institute of Agricultural Development in Transition Economies, Halle, Germany, University of Resources Natural and Life Sciences (BOKU) Vienna, Austria. The lectures



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

given by them were also attended by PhD students from IMRVA SD (Annex 140 - Documents regarding the invitation of recognized experts who gave courses / lectures attended by PhD students).

All the defended doctoral theses have public summaries made in English and French: (https://www.usamv.ro/index.php/ro/educatie/programe-de-studii?layout=edit&id=736).

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

Lectures were organized for PhD students with the invitation of leading experts from Germany, Austria, Switzerland.

Recommendations:-

The indicator is 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.

IOSUD makes public its educational offer by participating in various events held at international level (Annex 140), as well as by promoting study programs in English on the university website (http://www.usamv.ro/).

In the field of Agronomy, in the period 2015-2020, they completed their doctoral studies, PhD students from Syria, Iraq, Costa Rica.

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

Concrete measures are applied to promote educational programs and attract international doctoral students.

Recommendations:-

The indicator is fulfilled.



Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA** Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR**

IV. SWOT Analysis

Strengths:

- The quality and prestige of human resources.
- IOSUD with a tradition in organizing doctoral studies, the first doctoral degree in Agronomy was issued in 1934.
- Diversified material base and performance.
- Diversity of thematic areas of scientific research.

Weaknesses:

- Low level of outgoing mobilities.
- Internatinalization.
- Unsufficient financing of mobilities.

Opportunities:

- Conducting doctoral theses in international co-supervision.
- Stimulating doctoral students to carry out training courses in the form of various external mobilities for their professional development.
- Using the advantages of the capital city to increase incoming mobility.
- Connecting domestic and foreign doctoral students for work in the laboratory and writing top scientific papers.

Threats:

- Decrease of attractiveness of agriculturaly oriented programme for young people.
- The risk of losing top graduates due to their insufficient financial valuation.



AGENŢIA ROMÂNĂ DE ASIGURARE A CALITĂŢII ÎN ÎNVĂŢĂMÂNTUL SUPERIOR Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - ENQA Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - EQAR

V. Overview of judgments awarded and of the recommendations

No.	Type of indicator (*, C)	Performance indicator	Judgment	Recommendations
1	*	Indicator A.1.1.1.	fulfilled	
2	*	Indicator A.1.1.2	fulfilled	
3	*	Indicator A.1.2.1	fulfilled	
4	*	Indicator A.1.2.2	fulfilled	
5	*	Indicator A.1.3.1	fulfilled	
6	*	Indicator A.1.3.2	fulfilled	
7	*	Indicator *A.1.3.3	fulfilled	
8	С	Indicator A.2.1.1	fulfilled	
9	С	Indicator A.3.1.1	fulfilled	
10	*	Indicator *A.3.1.2	fulfilled	
11	*	Indicator A.3.1.3	fulfilled	
12	*	Indicator *A.3.1.4	fulfilled	
13	С	Indicator A.3.2.1	fulfilled	
14	*	Indicator *A.3.2.2	fulfilled	
15	*	Indicator B.1.1.1	fulfilled	
16	*	Indicator *B.1.2.1	fulfilled	
17	*	Indicator B.1.2.2	fulfilled	
18	*	Indicator B.2.1.1	fulfilled	
19	*	Indicator B.2.1.2	fulfilled	
20	*	Indicator B.2.1.3	fulfilled	
21	*	Indicator B.2.1.4	fulfilled	
22	С	Indicator B.2.1.5	fulfilled	
23	С	Indicator B.3.1.1	fulfilled	
24	*	Indicator *B.3.1.2	fulfilled	
25	*	Indicator *B.3.2.1	fulfilled	
26	*	Indicator *B.3.2.2	fulfilled	
27	*	Indicator C.1.1.1	fulfilled	
28	*	Indicator C.1.1.2	fulfilled	
29	С	Indicator C.2.1.1	fulfilled	
30	*	Indicator C.2.2.1	fulfilled	
31	*	Indicator C.2.2.2	fulfilled	
32	*	Indicator C.2.2.3	fulfilled	
33	*	Indicator *C.3.1.1	fulfilled /partially fulfilled	Increasing the number of doctoral students who carry out training internships abroad, including through financial support from IOSUD sources
34	*	Indicator C.3.1.2	fulfilled	
35	*	Indicator C.3.1.3	fulfilled	



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 forgranting it (if the Experts' Panelmembers do not reach a consensus, each of them can propose and argue his/her own decision).

Conclusions:

- Within the doctoral field of Agronomy, 11 doctoral supervisors currently work.
- ➤ All doctoral supervisors (100%) meet the CNATDCU minimum standards, achieving a score between 1540.3 and 6434.95 points, compared to 420 points the minimum value according to order 6129/2016.
- > The specialized disciplines within the doctoral students' training program are supported by the doctoral supervisors in the field of Agronomy who have the degree of professor.
- A number of 10 doctoral supervisors are coordinated by a maximum of 8 doctoral students.
- ➤ A single doctoral supervisor coordinates 10 PhD students (9%).
- ➤ 8 of the 11 supervisors (72.7%) reported at least 5 WoS indexed publications, in journals with IF or other achievements, all 11 supervisors (100%) have international visibility through membership in the scientific committees of publications and conferences international (Annex 154).
- The research infrastructure presented complies with the standards necessary for the activity of doctoral students. In the last 5 years, purchases of laboratory furniture, computers, apparatus and equipment have been made. PhD students have access to IOSUD libraries and international databases through the ANELIS PLUS 2020 program.
- For the analyzed period, 2015-2020, within the field of Agronomy, the ratio between the number of doctoral students and teachers / researchers who provide guidance / counseling was between 0.71-1.15: 1 (Annex 159 Doctoral guidance committees).
- For doctoral students who have obtained the title of doctor in the last 5 years there is at least one article or another contribution. All five articles selected for analysis present significant original contributions to the field of Agronomy.
- The doctoral school in which the field of doctoral studies is included in Agronomy proves the constant development of the process of evaluation and internal assurance of its quality.

Recommendations:

Increasing the number of PhD students participating in training courses abroad by developing collaboration agreements and financial support from IOSUD.

- > Increasing the number of scientific papers / patents / inventions published as a result of research activity.
- ➤ Increasing the number of doctoral students in co-supervision.



- Extending the endowment of laboratories with research equipment, calculation technique and statistical interpretation, which would allow a much better interpretation of the scientific results obtained.
- Connecting research centers and laboratories to the existing network at European level, which would allow access to external funding sources.

All performance indicators were evaluated as satisfied, except for the Indicator * C.3.1.1 from the category of those marked with an asterisk, within the evaluation process, carried out under the conditions of art. 12 of the annex no. 1 to the Order of the Minister of Education no. 3651 of 12.04.2021 on the approval of the Methodology for evaluating doctoral studies and the systems of criteria, standards and performance indicators used in evaluation.

In České Budějovice 6th July 2021

Prof. univ. dr. KONVALINA Petr