

# The External Evaluation Report of a Doctoral Study Domain

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

*The evaluation of external Doctoral Studies was conducted during 5-9 July 2021 in a blended format due to the context created by the spread of the SARS-CoV-2 coronavirus.*

*The panel for doctoral studies domains (fundamental domains of science-AGRONOMY C9) at University of Craiova were:*

- Coordinator Prof. dr. Imbrea Florin. USAMV Timisoara.*
- International expert prof. Estrella Agüera. University of Cordoba,*
- PhD student Borcea Denis Gabriel. Universitatea de Științe Agricole și Medicină Veterinară Cluj Napoca.*

*The entire activity of doctoral studies at the University of Craiova is carried out in accordance with the specific legislation, provided by the Code of Doctoral Studies (Government Decision no. 681/2011), amended by the new regulations of the Ministry of Education and Research. The university doctoral studies at IOSUD Craiova are carried out through the 10 Doctoral School, being divided into fields of doctoral or interdisciplinary university studies.*

*The Doctoral School of Animal and Plant Resource Engineering (IRAV) currently encompasses two authorized doctoral fields: Agronomy and Horticulture doctoral domains. The doctoral studies programme are carried out in the form of full-time and part-time education. This report is focused on fundamental domains of science-AGRONOMY C9. (Annex A.3.1.1.b. and Annex 2\_IOSUD).*

*The doctoral programs correspond to the third cycle of university studies within the Bologna process and allow the acquisition of a level 8 qualification from the EQF / CEC and from the National Qualifications Framework. Annex 3A\_3B\_IOSUD*

*Doctoral training is the way in which university graduates attracted by research and education have the opportunity to acquire the skills needed by a scientific researcher.*

*Within the doctoral field of Agronomy until the date of submission of the evaluation report, only one doctoral supervisor, prof.dr. Constantin Constantin, PhD supervisor since 2009, and at the date of the visit, three other qualified PhD supervisors were affiliated to the evaluated field: Prof. Dr. Roșculete Cătălin, Assoc. Prof. Dr. Olaru Aurel Liviu and Assoc. Roșculete Elena), and with PhD students in internship is only prof.dr. Constantin won. (Annex 3a).*

*During the evaluation period, 8 doctoral students were admitted to the field of doctoral studies in Agronomy, the reason for this small number is due to the fact that since 2015, within the evaluated field, until the date of elaboration of this report, only one doctoral supervisor, prof.dr. Constantin won. (Annex 20).*

## II. Methods used

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

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

- The analysis of the internal evaluation report of the doctoral study domain under review and its Annexes: **Yes, the REI for the field of doctoral studies Agronomy and annexes was analyzed.**

- The analysis of documents made available by the IOSUD, in physical format, during the evaluation visit (if such documents have been requested);

- The analysis of documents, data and information available on the IOSUD/Doctoral School(s) website, in electronic format: **Yes, the existing documents and information on the website were analyzed [www.ucv.ro](http://www.ucv.ro)**

- Visiting the buildings included in the institution's property, comprising (indicative and non-exhaustive list, which shall be changed according to the context):

- Laboratories; INCESA Research Center; Center for agricultural research, forestry, land measurements and control of agri-food products in the Oltenia area:

- Research laboratories at the Faculty of Agriculture (Annex 13),

- SCDA Caracal, SDE Banu Mărăcine, SCDP V Icea

- Career Counseling and Guidance Center; - library for doctoral students;

- student dormitories, Agronomy Complex (1,2,3);

- student canteen;

- sports base, etc .;

- Meeting/discussions with doctoral students in the doctoral study domain under review: **Yes, there was a meeting with PhD students in the field of Agronomy, 07.07.2021, from 12:00 to**

**13:00, face to face. 3 doctoral students participated in the discussions.**

- Meeting/Discussions with the graduates of the doctoral study domain under review: **Yes, the meeting with the graduates from the field of Agronomy was held, 07.07. 2021, 9.00-9.30, by phone.**

**The discussions were attended by Dr. Eng. Dobra Claudius Marian.**

- Meeting/Discussions with employers of the graduates in the doctoral study domain under review: **Yes, the meeting was held with the employers of graduates in the field of Agronomy, 07.07. 2021, now 10.00-11.00, by phone. The meeting was attended by 3 employers.**

- Meeting / discussions with the management of the Doctoral School / Schools in which the evaluated doctoral university field operates

**Yes, the meeting with the management of the Doctoral School of Engineering of Animal and Plant Resources no. 9 (Prof. Dr. Ion Mitrea).**

- Meeting/Discussions with the doctoral advisors in the doctoral study domain under review;

**Yes, the meeting was held with the doctoral supervisors in the field of doctoral studies in Agronomy, 07.07.2021, from 8.00-9.00, face to face. The discussions were attended by all 4 PhD supervisors in the field of Agronomy. There were discussions about what we would like to improve in the field of PhD Agronomy, emphasizing the increase in the duration of doctoral training, the internationalization of doctoral studies in the field of studies Agronomy.**

- Meeting/discussions with the representatives of the various structures of the IOSUD/Doctoral School(s) in which the doctoral study domain under review is operating:

**Doctoral School Council,**

**Quality Assessment and Assurance Commission, Quality Assurance Department,**

**Ethics Commission (including students representing these structures);**

- Application of questionnaires to doctoral students or academic staff in the doctoral study domain under review.

**The questionnaires were applied to the doctoral students at IOSUD level, the centralization and presentation of the results of these questionnaires being presented in the IOSUD report.**

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

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

**The University of Craiova, as an institution organizing doctoral study programs, carries out specific activities through the 10 Doctoral Schools. (Annex 1\_IOSUD\_Doctoral schools) [ANNEX 1B\\_IOSUD\\_Order](#)**

*no.5382\_2016\_Accreditation of Schools\_Domains, established on fields of doctoral or interdisciplinary university studies (Annex 2\_IOSUD\_Accredited domains).*

*Within the Doctoral School of IRAV there are two programs of scientific doctoral studies, in the form of part-time and part-time education, in the field of Agronomy and the Field of Horticulture.*

*They are carried out on the basis of the Code of doctoral studies approved by GD 681/2011 (updated in 2016) and the Institutional Regulation for the organization and functioning of the doctoral study programs of IOSUD-University of Craiova (Annex 1C\_IOSUD\_Acreditatio Domain Sport\_2018\_OM 5472 FROM NOVEMBER 14 2018).*

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

*University doctoral programmes are organised in accredited or provisionally authorized doctoral schools, which operate within an IOSUD. Each doctoral school is evaluated periodically, every 5 years, for each field, in order to be accredited, based on its performance and the institutional capacity of the IOSUD of which it is part.*

*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.*

*The doctoral programs developed at the University of Craiova correspond to the third cycle of university studies within the Bologna process and allow the acquisition of a level 8 qualification from the EQF / CEC and from the National Qualifications Framework. The functioning mechanisms provided by the specific legislation in force are implemented and function efficiently within IOSUD and the Doctoral Schools.*

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

*(a) the internal regulations of the Doctoral School;*

*The APRE Doctoral School within the University of Craiova is organized in accordance with the provisions of the Education Law no. 1/2011, the regulations of the Romanian Government Decision no. 681/2011 and of the Regulation on the organization and functioning of the doctoral study programs of IOSUD - University of Craiova.*

*The doctorate that is organized at the IRAV Doctoral School is of scientific type and has two components: -Training program based on advanced university studies; -Scientific research program. Organization of the Doctoral School of Animal and Plant Resource Engineering: The IRAV Doctoral School within the University of Craiova is established by decision of the Senate of the University of Craiova at the Faculty of Horticulture.*

*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;*

*The election of the governing bodies (CSUD director, doctoral school director, CSUD and CSD council, as well as student representatives in CSD, by universal, direct and secret ballot, is carried out in accordance with regulations and methodologies approved at IOSUD.*

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

*At the IRAV Doctoral School there are methodologies for organizing the admission of doctoral students, for completing doctoral studies. The admission of doctoral candidates is done through a competition, organized by IOSUD, usually before the beginning of the academic year. The number of places, by forms of education (with funding from the budget and with funding through fees), is distributed annually by the MEN, at the proposal of the CSUD, with the approval of the Board of Directors and the approval of the Senate of the University of Craiova.*

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

*IOSUD - The University of Craiova has mechanisms for recognizing the quality of doctoral supervisor and equivalence of doctorates obtained in other states as well as its own Regulation for organizing and conducting the process of obtaining the certificate of qualification*

e) functional management structures (Council of the doctoral school), giving as well proof of the regularity of meetings;

*At the level of IOSUD - University of Craiova and at the level there are functional structures that certify the regularity of convening meetings.*

f) the contract for doctoral studies;

*In the doctoral studies contract concluded at the enrollment of the doctoral student, the obligations of IOSUD, the Doctoral School and the doctoral student regarding the doctoral studies are provided, the organization of the research that will end with the public defense of the doctoral thesis, the type of contract is customized. depending on the form of education (budget, frequency fee):*

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

*Internal procedures for analysis and approval of proposals on the subject of training programs based on advanced university studies, aim at a series of clearly established objectives in order to increase the quality of the educational and research act. The curricula contain in detail the content of the doctoral study programs, respectively, the obligations of doctoral students, the evaluation rhythm and the evaluated activities being approved both by the Doctoral School Council, by CSUD-UCV, and by the Senate of the University of Craiova. Annex 16\_IOSUD\_Education plans and Appendix 6.*

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**The indicator is fulfilled**

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

*The regulations of the Doctoral School and the Regulations for Completion of studies in its article 11 establish mandatory criteria, procedures and standards for the acceptance of new leading doctoral members, regulations that endorse how a doctoral supervisor can unsubscribe as a member of the doctoral school and ways to prevent fraud and plagiarism in scientific research.*

*(Annex 1. Regulations of the IRVA doctoral school)*

*ANNEX 16 B\_CSUD\_Approval of curricula\_CSUD\_Senate.pdf, Annex 5.12. Annex 5.18. and Annex 5.20.*

**The indicator is fulfilled**

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

*IOSUD- The University of Craiova has the necessary infrastructure to carry out doctoral studies, has an electronic register for students, as well as an updated computer system for academic training. The university has an anti-plagiarism program to prevent and avoid academic plagiarism and to check the similarity, in this case, between doctoral theses. <https://cis01.central.ucv.ro/evstud/>. <https://sistemantiplagiat.ro/>*

**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.

*"Student Records" is the computer system of the University of Craiova that covers educational cycles I, II and III. This system registers and manages the entire academic trajectory of students enrolled at the university. The Computer System of Student Records of the University of Craiova, generates annual or current statistical data on doctoral students of IOSUD - University of Craiova. To access this system it is necessary to have a password. Each student, by means of his password assigned by the computer program, can consult his academic situation.*

*(Annex 6 IOSUD and Appendix8.).*

*[https://cis01.central.ucv.ro/evstud/planuri/index.php?an\\_univ=2020&facultate=500020&ciclu=5&forma=2&specializare=500897&an\\_stud=2&cmdExecuta=Execut%C4%83](https://cis01.central.ucv.ro/evstud/planuri/index.php?an_univ=2020&facultate=500020&ciclu=5&forma=2&specializare=500897&an_stud=2&cmdExecuta=Execut%C4%83)*

**The indicator is fulfilled**

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

The computer program <https://sistemaantiplagiat.ro> is used at IOSUD in the analysis of scientific works and doctoral theses in order to guarantee their originality and detect possible cases of plagiarism. The University of Craiova has an annual subscription contract to this program. The authenticity of the works is carried out according to stages imposed by the IOSUD regulations. This tool is only used to detect the originality of the work without taking into account other aspects such as the methodology, results or conclusions that are included in it.

The University of Craiova is very aware of the importance of avoiding plagiarism which is why it uses this plagiarism filter software regularly.

<https://sistemantiplagiat.ro/>

<https://sistemantiplagiat.ro/is> provided in ANNEX 7 IOSUD\_Sistemantiplagiat.ro - Manual\_Admin\_RO and Annex 7A\_IOSUD.

**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.

The tuition fees paid by doctoral students, as well as the funding provided by the government for budgeted places, constitute the main financial resources to carry out the doctoral activity. Likewise, there are additional funds that are obtained by both doctoral supervisors and doctoral students through contracts or research projects to obtain material, buy research equipment, participate in conferences, etc.

(Appendix 9B\_IOSUD\_Extra-budgetary financing).

**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.

In the last 5 years, the Faculty of Agronomy has developed research projects related to relevant topics in the field of Agronomy. Not only supervisors and doctoral students but also future doctoral supervisors participated in these projects. (Annex 10.)

**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%.

In the period 2015 - 2016, within the University of Craiova, a project financed from European funds was developed "University Scholarships in Romania through European Support for Doctoral and Post-doctoral Students (POST-DOC SCHOLARSHIPS), from which doctoral students in the field Agronomy and Horticulture. (Annex 9B\_IOSUD\_Extra-budgetary\_financing\_).

**The indicator is fulfilled**

**Performance Indicator \*A.1.3.3.<sup>2</sup>** 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

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<sup>2</sup> The indicators marked with an asterisk (\*) hold a special status, referring exclusively to the evaluation of doctoral studies domains, as per Article 12 from the annex No.1 of the Order of the minister of education No. 3651/12.04.2021 approving the Methodology for evaluating



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.).

Within IOSUD-UCV, at least 10% of the total amounts related to doctoral grants obtained by the university through institutional contract and tuition fees collected from the doctoral students in the form of fee-based education, were used to reimburse training expenses of doctoral students (attending conferences, summer schools, training, programs abroad, publication of specialty papers or other specific forms of dissemination etc.). (Annex 9A\_IOSUD; Annex 10\_IOSUD; Annex 12.)

**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.*

Both IOSUD - University of Craiova, as well as the doctoral schools have a modern scientific-technical equipment and quality laboratories to carry out their research and obtain competitive results in doctoral studies in Agronomy. <https://www.ucv.ro/cercetare/ics/incesa.php>

**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.

IOSUD-UCV and the Doctoral School present evidence regarding the ownership or renting of spaces for research activities specific to doctoral programs (laboratories, experimental fields, research stations, etc.) (Annex 13).

The spaces and material endowment (computers, software, apparatus, laboratory equipment, etc.) of the IRAV Doctoral School allow the realization of the research activity in the research centers through its own or existing laboratories within the Banu Mărăcine Didactic Research Station and the Caracal Agricultural Research and Development Station, which provides support in doctoral research to students in the field of Agronomy through the material base represented by research laboratories, various equipment and apparatus, experimental fields, etc. <https://www.ucv.ro/cercetare/ics/statiuni.php>

The University of Craiova benefits from online access to numerous international databases with the aim of supporting the information and documentation activity necessary to carry out research topics. Access is available for teachers and PhD students from the university campus (Library, laboratories, offices, dormitories), and there is the possibility of mobile access (outside the university campus). (Annex 12C\_IOSUD). [http://biblio.central.ucv.ro/bib\\_web/ro/Resurse\\_electronice\\_open\\_access.php](http://biblio.central.ucv.ro/bib_web/ro/Resurse_electronice_open_access.php); Annex 12B IOSUD\_Buget Library 2015-2020 .

A large part of the existing research infrastructure has been acquired and developed in the last 5 years. Annex 14. IRAV Acquisitions

**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.

The staff of the IRAV Doctoral School have sufficient experience and qualifications to be able to teach in the doctoral study program. It should be noted that since 1960 the University of Craiova has had doctoral studies, being a pioneer in the field of Agronomy, specialty of botany, with the improvement of this field being the basic requirement of doctoral supervisors. (ANNEX 3A\_IOSUD\_LIST DOCTORATE DRIVERS\_SGN).

**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.

In the field of Agronomy, it has been proven that there are two doctoral supervisors prof. univ. Dr. Constantin Cotigă, associate (Order 5796 / 10.29.2009) and prof. Dr. Roșculete Cătălin Aurelian, holder, (Order of the Minister of National Education no.4101 / 05.28.2019). They will be joined by two other associate professor doctoral supervisors. Dr. OLARU AUREL LIVIU Olaru Aurel Liviu and associate professor Dr. ROȘCULETE ELENA, who supported the Qualification on 06.22.2021 and the approval of the CNATDCU on 06.30.2021, and will join the Doctoral School in IRAV, prior approval of the Ministry of Education, this will be the criterion regarding it. (Annex 1 additional to the visit sheet).

Therefore, during the evaluation it is evidenced that there is the minimum required number of doctoral supervisors (3) who meet the current CNATDCU minimum standards.

**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.

In the field of Agronomy there are 4 doctoral advisors, 75% of them are full-time employed-IOSUD(3) and 25% is one associate PhD advisor (1. This associate professor is retired but he continues teaching with the approval of the senate of the University of Craiova. ANNEX 3A\_DOCTORAL LEADERS AFFILIATED DOCTORAL SCHOOLS\_IOSUD\_xls and ANNEX 13 IOSUD\_ Doctoral supervisors 2015-2020\_sit numerica\_FF). (Additional Annex 1 to the visit sheet).

**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.

The study subjects in education program based on advanced university studies related to the field of Agronomy are taught by teachers who have the quality of doctoral advisor with proved expertise in the field of subjects. (Appendix 3A\_DOCTORAL DRIVERS AFFILIATED DOCTORAL SCHOOLS\_IOSUD\_xls, (Annex 16.; Annex 17. and Annex 18)

In the disciplines that develop transversal competences or that contain strictly specialized chapters, the course holder can teach or can invite other full-time teachers or specialists from outside the higher education and research systems. (ANNEX 15 IOSUD Course holder \_2020 2021\_PPUA \_16 04; Annex 19.).

**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<sup>3</sup> does not exceed 20%.

*The percentage of doctoral thesis advisors who concomitantly coordinate more than 8 doctoral students, but no more than 12 does not exceed 20%. (Annex A.3.1.1. IOSUD\_Nr Drd. per Conducatori\_2019\_2020 and Annex 20.).*

**The indicator is fulfilled**

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

*The Doctoral advisors in the field of Agronomy carry out an internationally visible scientific activity depending on their field of professional competence, recognized by the habilitation commissions and confirmed by the National Council for Attestation of University Degrees, Diplomas and Certificates (CNATDCU). (Annex 21 and Annex 23)*

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

*It is clear the internationally visible scientific activity of thesis advisors in the field of Agronomy that has been subject to evaluation in the last 5 years. Most of the PhD supervisors in the field of Agronomy present at least 5 ISI publications, indexed Web of Science or other scientific merits in Agronomy such as approvals, patents, projects etc.; membership on scientific boards of international publications and conferences; membership on boards of international professional associations; guests in conferences or expert groups working abroad. All this shows that they have a quality scientific curriculum. More than 50% of Thesis advisors meet the minimum standards required by CNATDCU. (Annex 21 and Annex 23)*

**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.

*The doctoral thesis advisors in Agronomy continue to be active in their scientific field. At least 50% of the doctoral thesis advisors acquire more than 25% of the score requested by the minimal CNATDCU standards, based on the scientific results of at least 5 years. Annex 23.*

**The indicator is fulfilled**

## **Domain B. EDUCATIONAL EFFECTIVENESS**

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



*From the documents sent by IOSUD, to the performance indicator Educational effectiveness, results the concern of the institution evaluated according to the objectives pursued regarding: the number, quality and diversity of the candidates who presented themselves at the admission contest; to the quality of the admitted candidates, to the content of the doctoral study programs and to the results of the doctoral studies and their evaluation procedures, for all these objectives there is clear evidence.*

*(ANNEX 18 A\_F\_IOSUD\_Admission 2015\_2020\_MASTER OTHER UNIVERSITY)*

### **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.*

*The IRAV Doctoral School has the capacity to attract a larger number of candidates than the number of places allocated to places financed from the budget.*

*Candidates graduating from the University of Craiova as well as graduates of higher education from the country entered the competition for admission to doctoral studies in the field of Agronomy. (ANNEX 18 A\_F\_IOSUD\_Admission 2015\_2020\_MASTER ALTE UNIVERSITAT)*

**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.*

*The ratio between the number of master's degree graduates of other higher education institutions in the country or abroad who have registered for the competition for admission to doctoral studies in the last 5 years and the number of places financed from the state budget competition in the doctoral school is over 0.2. (ANNEX 18 A\_F\_IOSUD\_Admission 2015\_2020\_MASTER OTHER UNIVERSITY)*

**The indicator is fulfilled**

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

*From the presented documents, the candidates admitted to the doctoral studies in the field of Agronomy must meet the criteria imposed by the doctoral organizing institution, demonstrate academic, research and professional performance and present before the admission commission a doctoral research project, which can be assimilated the interview according to the Regulation for admission to doctoral studies, art. 62. al. (1a) et al. (2). (ANNEX 18 A\_IOSUD\_Admission 2015\_2020\_Statistics abandonment rate)*

**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.*

*Admission to doctoral study programs is based on selection criteria that include: candidates' previous professional performance, their interest in scientific research, publications in the field and a research topic proposal. The current admission procedures do not provide for an interview, but there is evidence, which consists in presenting a doctoral research project, which can be assimilated to the interview. (Regulation for admission to doctoral studies, art. 62. al. (1a) et al. (2)). (ANNEX 18 A\_IOSUD\_Admission 2015\_2020\_Statistics abandonment rate)*

**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<sup>4</sup> does not exceed 30%.

*The renouncement / dropping out rate of doctoral students 2 years after admission does not exceed 30%. (Annex 18A IOSUD)*

**The indicator is fulfilled**

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

*\*general description of the criterion analysis.*

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

*\*general description of the standard analysis.*

*In the design of the advance training program based on university studies, the basic concepts, theories and methods of scientific research in the field and area of specialization were understood and used appropriately in the research activity, as well as the use of basic knowledge to explain and interpret various types of concepts, situations, processes, projects, etc. associated with the field. Through these programmes, doctoral students develop critical, creative thinking and research skills, and contribute to the existing body of knowledge. They will elaborate their doctoral thesis (scientific work).*

*(Appendix6. and Annex 24.).*

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

*The curriculum's advanced training programme comprises 5 disciplines relevant to the scientific research training of PhD students, of which at least one discipline is devoted to the in-depth study of research methodology and/or statistical data processing - Scientific Research Methodology in Agricultural Sciences. Compulsory subjects and packages of optional subjects are chosen in such a way that they meet the requirements of the field. (Appendix6., Annex 24.2).*

**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.

*The advanced training programme for the doctoral programme in the field of Agronomy includes a subject dedicated to ethics in scientific research and intellectual property with well-defined topics on these subjects within a discipline taught in the doctoral programme. (Annex 24.3).*

**The indicator is fulfilled.**

**Performance Indicator B.2.1.3.** The IOSUD has mechanisms to ensure that the academic training program based on advanced university studies addresses „the learning outcomes”, specifying the knowledge, skills, responsibility and autonomy that doctoral students should acquire after completing each discipline or through the research activities<sup>5</sup>.

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<sup>4</sup> 3 years for the doctoral university studies with the duration stipulated at Article 159, paragraph (3), respectively 4 years for the doctoral university studies with the duration stipulated at Article 174, paragraph (3) of the Law of national education No. 1/2011 with subsequent amendments and additions.

<sup>5</sup> Or by what the graduate should know, understand and to be able to do, according to the provisions of the Methodology of 17 March 2017 regarding inscription and registration of higher education qualifications in the National Register of Qualifications in Higher Education (RNCIS) approved by the Order No.3475/2017 with subsequent amendments and additions.

*From the documents submitted by IOSUD, it is mentioned that the Learning Plans include in point 1.3., a series of General and Special Competences, knowledge and skills that cover the study programme. (Annex 24)*

*In subjects that develop competences of a cross-cutting nature or that contain strictly specialised chapters, both the course holder and other teaching staff, visiting lecturers or specialists from outside the higher education and research systems at home or abroad may teach.*

*The subject sheets of the advanced degree-based training programme in the field of Agronomy assessed are aimed at "learning outcomes", specifying the competences, skills and attitudes that doctoral students should acquire after completing each subject or through research activities. (ANNEX 15 IOSUD Course holder \_2020 2021\_PPUA \_16 04) (Annex 19.)*

**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.

*Doctoral students in the speciality (Agronomy) benefit from the advice/guidance of the functional supervision committees, through regular meetings, complementary to those offered by the doctoral director, on the occasion of the meetings scheduled for the defence of the research reports in which they receive marks according to their quality, recorded in writing and submitted to the secretary's office of the doctoral school for accreditation. (Annex 25. Annex 26).*

**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.

*The ratio between the number of PhD students and the number of teaching/research staff supervising in the field of Agronomy is 1.5:1. (Annex 25.).*

**The indicator is fulfilled.**

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

*\*general description of the criterion analysis.*

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

*\*general description of the standard analysis.*

*In Agronomy field, research is valued by PhD students through presentations at various national and international scientific congresses, scientific publications, technology transfer, patents, etc. PhD students must present a minimum of three scientific papers at the end of their studies in order to be able to defend their doctoral thesis.*

**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.

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*Doctoral students who have obtained their PhD degree in the last 5 years have developed, defended and published a number of scientific papers with relevant and original contributions in Agronomy.*

*A pdf document by each PhD student who has obtained a PhD in the last 5 years is presented.*

(Annex 27. And Annex 27.1.).

**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.

After reviewing the documentation provided for this evaluation, it has been verified that each doctoral student must publish at least 3 scientific papers in order to consider the doctoral thesis completed and to be able to defend it. Therefore, the number of doctoral students who have completed their doctoral studies within the evaluated period (past 5 years) is over 1. (Annex 29. and Annex 29.1.)

**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.

The documents reviewed in the field of Agronomy show that the IOUD-UCV and the Doctoral School of Animal and Plant Resources Engineering, engages a significant number of external scientific specialists in the commissions for public defence of doctoral theses in the analysed domain. (Annex 30.).

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

The number of doctoral theses assigned to a given supervisor from a higher education institution other than the evaluated IOSUD shall not exceed two (2) for theses coordinated by the same doctoral supervisor in one year. (Annex 30.).

**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.

It has been verified during the evaluation that in the last 5 years, the ratio between the number of doctoral theses assigned to a given scientific supervisor at a higher education institution other than the one where the doctoral thesis is organised and the number of doctoral theses defended in the same field is less than 0.3. (Annex 30.1).

**The indicator is fulfilled**

## **Domain C. QUALITY MANAGEMENT**

This indicator addresses a number of issues related to: the existence and regular operation of the internal quality assurance system; the transparency of information and accessibility to learning resources by doctoral students; information of interest to doctoral students and future candidates, together with information of public interest that is available for consultation in electronic format; the degree of internationalization as well as the strategy that is applied to increase the degree of internationalization of doctoral studies within the IOSUD of the University of Craiova.

(ANNEX IOSUD\_Internal evaluation and monitoring procedure IOSUD\_UCV).

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

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

*At IOSUD an internal monitoring evaluation procedure has been developed for the doctoral schools and is applied on a regular basis. The annual evaluation of the teaching staff at the Faculties of Agriculture and Horticulture and at the Doctoral School includes the evaluation of the scientific work of the doctoral directors.*

**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:*

*The APRE Doctoral School prepares and submits an annual activity report for evaluation. In this evaluation the criteria established by IOSUD are analysed*

- a) the scientific activity of the doctoral directors;*
- b) the infrastructure and logistics necessary to carry out the research activity;*
- c) the regulations and procedures on which the doctoral studies are based;*
- d) the scientific activity of the doctoral candidates;*
- e) the training programme based on advanced university studies for doctoral students;*
- f) the social and academic support (including participation in various events, publication of articles, etc.) and advisory services available to doctoral students.*

*(Appendix IOSUD\_PV\_AVIZ EVALUARE\_26.04; ANNEX 32 IOSUD\_SENATE OPINION\_Internal evaluation reports IOSUD\_ SD\_Doctoral fields\_Senate 27.04.2021; Annex 31 and Annex 32.*

**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.*

*There are feedback mechanisms for doctoral students to detect their needs and level of satisfaction with the doctoral programme they are studying in order to improve the weaknesses found at both the academic and administrative levels.*

*(Appendix 22A\_IOSUD\_Online Questionnaire and procedure of 22A1\_IOSUD\_2019\_Online questionnaire and completion procedure; and 24C\_IOSUD\_Interpretation statistics result Questionnaire <https://chestionar.ucv.ro/>*

*The results of the satisfaction survey are presented in the doctoral school and IOSUD.*

*ANNEX 22 A IOSUD\_rez online questionnaire..ANNEX 22B\_ IOSUD\_Results evaluation\_questionnaire; ANNEX 22B1\_ IOSUD\_2019\_Results of the evaluation\_questionnaire; Appendix 22C\_2021\_Questionnaire data interpretation; ANNEX 24C\_IOSUD\_Statistical interpretation of results Doctoral students questionnaire\_F*

**The indicator is fulfilled**

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



The IOSUD of the University of Craiova and the Doctoral School is highly sensitised to ensure transparency of information and accessibility of learning resources. Information of interest to doctoral students and prospective candidates is available in electronic format on the IOSUD/Doctoral School website.

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

IOSUD and the Doctoral School provide the necessary information for doctoral students and future candidates, i.e. information of public interest which is available for consultation in electronic format on the institution's website.

**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:

From the documents submitted for evaluation it appears that the Doctoral School of Engineering of Animal and Plant Resources, through IOSUD, is concerned with publishing on the website of the organizing institution, in compliance with general data protection regulations, information necessary for doctoral students about:

a) the doctoral school regulations;

<https://horticultura.ucv.ro/horticultura/ro/managementul-calit%C4%83%C8%9Bii>

b) the admission regulations with all necessary information;

[https://www.ucv.ro/pdf/admitere/2018/UCv\\_Regulament\\_ADMITERE\\_2018\\_2019.pdf](https://www.ucv.ro/pdf/admitere/2018/UCv_Regulament_ADMITERE_2018_2019.pdf)

<https://horticultura.ucv.ro/horticultura/ro/managementul-calit%C4%83%C8%9Bii>

c) the doctoral study contract specifying the type of contract according to the type of education (budget, fee-based):

[https://www.ucv.ro/invatamant/educatie/programe\\_doctorat/admitere\\_contracte\\_studiu.php](https://www.ucv.ro/invatamant/educatie/programe_doctorat/admitere_contracte_studiu.php)

[https://www.ucv.ro/pdf/invatamant/educatie/programe\\_doctorat/admitere/contracte\\_studiu\\_2019\\_contract\\_studii\\_doctorale\\_buget-2019.pdf](https://www.ucv.ro/pdf/invatamant/educatie/programe_doctorat/admitere/contracte_studiu_2019_contract_studii_doctorale_buget-2019.pdf)

[https://www.ucv.ro/pdf/invatamant/educatie/programe\\_doctorat/admitere/contracte\\_studiu\\_2019\\_contract\\_studii\\_doctorale\\_taxa\\_2019\\_4000\\_Stiinte\\_ingineresti.pdf](https://www.ucv.ro/pdf/invatamant/educatie/programe_doctorat/admitere/contracte_studiu_2019_contract_studii_doctorale_taxa_2019_4000_Stiinte_ingineresti.pdf)

d) the regulations for the completion of the studies, including the procedure for the public defence of the thesis ( Institutional regulations for the organisation and functioning of the doctoral study programmes of IOSUD - University of Craiova, Chapter 6. Doctoral theses and completion of doctoral studies, articles 35 - 44 detail the steps and methodology for completion of doctoral studies);

[https://www.ucv.ro/pdf/invatamant/management/regulamente/Regulamente%20studii/Regula\\_tul\\_de\\_organizare\\_si\\_functionare\\_programe\\_studii\\_doctorat\\_al\\_IOSUD.pdf](https://www.ucv.ro/pdf/invatamant/management/regulamente/Regulamente%20studii/Regula_tul_de_organizare_si_functionare_programe_studii_doctorat_al_IOSUD.pdf)

e) the content of the training programmes based on advanced university studies is presented, according to the U.C.V.'s Student Records Information System;

[http://cis01.central.ucv.ro/evstud/planuri/index.php?an\\_univ=2018&facultate=500020&ciclu= 5 & forma = 2 & specializare = 500896 & an\\_stud = 1 & cmdExecuta = Execut% C4% 83](http://cis01.central.ucv.ro/evstud/planuri/index.php?an_univ=2018&facultate=500020&ciclu= 5 & forma = 2 & specializare = 500896 & an_stud = 1 & cmdExecuta = Execut% C4% 83)

f) the scientific and scholarly profile, thematic areas/research topics of the PhD supervisors in the field, as well as their institutional contact details;

<https://horticultura.ucv.ro/horticultura/ro/doctorat>

g) list of PhD students in the field with basic information (year of registration; supervisor);

(Annex 34 and Annex 20)

h) information on the standards for the elaboration of the doctoral thesis;

<https://horticultura.ucv.ro/horticultura/ro/managementul-calit%C4%83%C8%9Bii>

<https://horticultura.ucv.ro/horticultura/ro/studen%C8%9Bi>

i) links to abstracts of doctoral theses to be publicly defended, as well as the date, time and place where they will be defended, at least 20 days before the defense.

[https://www.ucv.ro/invatamant/educatie/programe\\_doctorat/programate.php](https://www.ucv.ro/invatamant/educatie/programe_doctorat/programate.php)

**The indicator is fulfilled**

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

*\*general description of the standard analysis.*

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

*According to the documentation reviewed, all doctoral students have free access to a platform with academic databases relevant to the fields of organised doctoral studies.*

*(Annex 28\_IOSUD\_Presentation University Library of Craiova 2020; Appendix I2C\_IOBIBLIOTECA UNIVERSITĂȚII DIN CRAIOVA SUD\_Biblioteca\_Bazeoteca databases scientific-2020\_rotated),  
[http://biblio.central.ucv.ro/bib\\_web/ro/Resurse\\_electronice\\_open\\_access.php](http://biblio.central.ucv.ro/bib_web/ro/Resurse_electronice_open_access.php)*

**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.

*Each doctoral student has access, upon request, to an electronic system of verification of the degree of similarity with other existing scientific or artistic creations, in the list of programmes recognised by the National Council for the Accreditation of University Degrees, Diplomas and Certificates (CNATDCU), according to the provisions of art. 2 of MEN Order no. 3485 of 4.04.201.*

*(Annex 9.1. Request for report similarity).*

**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.

*The documents submitted by IOSUD and the Doctoral School of Animal and Plant Resource Engineering demonstrate that all PhD students have free access to a platform with academic databases relevant to the PhD field of Agronomy.*

*(Appendix 1.).*

*[https://www.ucv.ro/pdf/invatamant/management/regulamente/Regulamente%20structuri%20UCV/2016\\_nov/Regulament\\_cercetare\\_2016.pdf](https://www.ucv.ro/pdf/invatamant/management/regulamente/Regulamente%20structuri%20UCV/2016_nov/Regulament_cercetare_2016.pdf)*

**The indicator is fulfilled**

**Criterion C.3. Internationalization**

*\*general description of the criterion analysis.*

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

*IOSUD has signed numerous collaboration and mobility agreements with universities and research institutes abroad, which carry out activities in the field of studies, including for the mobility of doctoral students and professors, ERASMUS agreements for the doctoral cycle, which demonstrates the importance it attaches to internationalisation.*

*IOSUD supports the organisation of international co-supervised doctoral programmes and is committed to inviting recognised experts in the field to give lectures/lectures to doctoral students and in the future.*

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

*The doctoral school, through IOSUD, has signed collaboration and mobility agreements with foreign universities, research institutes, companies working in the field of study, aimed at the mobility of doctoral students and teaching staff (e.g. ERASMUS agreements for doctoral studies), and at least 35% of doctoral students have completed a training period abroad or another form of mobility such as participation in international scientific conferences. (Appendix 27\_IOSUD\_Partnerships Research infrastructure) (Appendix 25B\_IOSUD\_SCHOLARSHIPS ERASMUS\_DOCTORANZI\_OUTGOING\_2015-2020) and Annex 35.*

**The indicator is fulfilled**

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

*The Doctoral School supports the organisation of international cotutelle PhDs, i.e. it supports the invitation of recognised experts to give lectures/lectures to PhD students and makes special efforts to ensure this in the future. (Annex 19.)*

**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.).

*The internationalisation of doctoral activities is supported through participation in educational events to attract international doctoral students, the inclusion of international experts in steering committees or defence of doctoral theses, etc. For a better visibility of the educational offer and to increase the degree of internationalisation of the activities, the University of Craiova IOSUD Presentation Guide has been published, which contains information in Romanian and in English and about the APRE Doctoral School - Field of Agronomy, which can be accessed on the website of IOSUD - University of Craiova.*

[https://www.ucv.ro/invatamant/educatie/programe\\_doctorat/prezentare\\_IOSUD.php](https://www.ucv.ro/invatamant/educatie/programe_doctorat/prezentare_IOSUD.php)

[https://www.ucv.ro/pdf/admitere/2020/romani\\_de\\_pretutindenii/Doctorat\\_rom\\_pret\\_site\\_20\\_20.pdf](https://www.ucv.ro/pdf/admitere/2020/romani_de_pretutindenii/Doctorat_rom_pret_site_20_20.pdf)

**The indicator is fulfilled.**

## IV. SWOT Analysis

<b><u>Strengths:</u></b>	<b><u>Weaknesses:</u></b>
<ul style="list-style-type: none"> <li>- Quality teaching staff with extensive teaching and scientific experience;</li> <li>- Quality and varied equipment allowing for interdisciplinary research.</li> <li>- Obtaining diverse economic resources to help finance doctoral students and supervisors in their</li> </ul>	<ul style="list-style-type: none"> <li>- Reduced number of PhD students who benefit from training internships abroad and who carry out Erasmus-type mobility</li> <li>Lack of foreign doctoral students in doctoral studies in the field of Animal Husbandry</li> <li>Lack of international experts in the commissions for guiding or defending doctoral these</li> </ul>

<p>efforts to publish the results of scientific research in prestigious journals;</p> <ul style="list-style-type: none"> <li>- Concern for improving and supplementing the material base necessary for doctoral scientific research with state-of-the-art equipment;</li> <li>- Admission to doctoral studies in this field is also open to candidates from other specialities, thus favouring interdisciplinary research;</li> <li>- To provide optimal conditions for the didactic and scientific training of doctoral students;</li> <li>- Well-trained graduates in the field of evaluation, who face new challenges in the field of agriculture;</li> <li>- Encourage high-performing teaching and scientific staff to support empowerment in order to attract new PhD supervisors;</li> <li>- High potential of the area from an agronomic point of view, taking into account that the highly developed private sector requires specialists with a strong background, taking into account new national and international requirements;</li> <li>- Collaboration with many international universities and research institutes.</li> <li>-</li> </ul>	
<p><b><u>Opportunities:</u></b></p> <ul style="list-style-type: none"> <li>- The University of Craiova facilitates a number of inter-institutional and interdisciplinary collaboration opportunities with prestigious universities and research institutes in different international fields of expertise, through the signing of collaboration and mobility agreements, scientific training, or participation in international scientific conferences.</li> <li>- Doctoral students have free access to scientific research laboratories and to a platform with academic databases relevant to the fields of the doctoral studies organised, according to internal regulations.</li> <li>- The Doctoral School, through research grants obtained on the basis of national competition, will provide doctoral students with opportunities to train, develop and hone entrepreneurial skills;</li> <li>- IOSUD offers opportunities for international collaboration in the realization of doctoral theses in co-supervision with established specialists in the field;</li> </ul>	<p><b><u>Threats:</u></b></p> <ul style="list-style-type: none"> <li>-The low intention of the graduates to have opportunities for inter-institutional collaboration continues the professional path through studies and interdisciplinary with prestigious doctoral universities</li> <li>-Demographic decrease in the number of international profile, by concluding graduates of master's studies who enroll in chords of collaboration and mobility, from doctorate;</li> <li>-Reduced duration of doctoral studies (3 years) which does not allow the timely completion of doctoral theses;</li> </ul>

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

No. -R t	Indicator type indicator (*, CP	Performancel)	Qualifying	<i>recommendation</i>
<u>1.</u>		<i>Indicator A.1.1.1.</i>	fulfilled	
2		<i>Indicator A.1.1.2.</i>	accomplished	
3		<i>Indicator A.1.2.1.</i>	accomplished	
4		<i>Indicator A.1.2.2.</i>	accomplished	
5		<i>Indicator A.1.3.1.</i>	accomplished	
6	*	<i>Indicator * A.1.3.2.</i>	accomplished	<i>increasing the number of PhD students who benefit for May many months and othersources of funding than government</i>
7	*	<i>Indicator * A.1.3.3</i>	accomplished	
8	<b>CPI</b>	<i>Indicator A.2.1.1.</i>	accomplished	
9	<b>CPI</b>	<i>Indicator A.3.1.1</i>	accomplished	
<u>10</u>	*	<i>Indicator * A.3.1.2.</i>	accomplished	
<u>11</u>		<i>Indicator A.3.1.3.</i>	accomplished	
<u>12</u>	*	<i>Indicator * A.3.1.4.</i>	accomplished	



13	CPI	Indicator A.3.2.1.	accomplished	
14	*	Indicator * A.3.2.2.	accomplished	
15	*	Indicator * B.1.1.1 ..	accomplished	Attracting a larger number of graduate students of a master's program from the country or abroad to studied university of doctorate.
16	*	Indicator * B.1.2.1.	accomplished	
17		Indicator B.1.2.2.	accomplished	
18		Indicator B.2.1.1.	accomplished	
19		Indicator B.2.1.2.	accomplished	
20		Indicator B.2.1.3.	accomplished	
21		Indicator B.2.1.4.	accomplished	
22	CPI	Indicator B.2.1.5.	accomplished	
2.3	CPI	Indicator B.3.1.1.	accomplished	
24	*	Indicator * B.3.1.2.	accomplished	
25	*	Indicator * B.3.2.1.	accomplished	
26	*	Indicator * B.3.2.2.	accomplished	
27		Indicator C.1.1.1.	accomplished	
28	*	Indicator * C.1.1.2.	accomplished	
29	CPI	Indicator C.2.1.1.	accomplished	
30		Indicator C.2.2.1.	accomplished	
31		Indicator C.2.2.2.	accomplished	
32		Indicator C.2.2.3.	accomplished	
33	*	Indicator * C.3.1.1	accomplished	Increasing mobility among students PhD students as well their participation in various conferences more support for PhD students in order to participate in training courses  professional in the field at foreign universities for a longer period of time.
34		Indicator C.3.1.2.	accomplished	Supporting the organization of co-supervised doctorates International
35		Indicator C.3.1.3.	accomplished	Increasing the degree of internationalization of doctoral studies in the field Agronomy by attracting

				<i>of doctoral students international; inclusion of international experts in committees for the guidance or defense of theses doctorate</i>
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*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

*In general, PhD studies in the field of AGRONOMICS are well structured and have an adequate research infrastructure and doctoral supervisors with experience in the field to provide PhD students with good training in this scientific field.*

*The IOSUD and IRAV doctoral school in the field of Agronomy are characterized by complying with the required legislation, as well as presenting students with studies of academic and scientific quality. As an added value, they have farms for agricultural production and didactic research stations, which allow them to carry out practices that are at the same level as other European universities.*

*The infrastructure, the teaching and scientific organization contribute to a good educational development.*

*The motivation of the university to improve quality must be highlighted and it collaborates with other institutions in order to implement new forms of teaching and to broaden its scientific vision.*

*These doctoral studies in AGRONOMY influence graduates by increasing their professional prestige and which employers value with a high degree of satisfaction.*

*The weak point of doctoral studies is internationalization. This should be improved through the development of a specific strategic plan at the IOSUD level, with sufficient financial and institutional support.*

<b>Name and surname</b>	<b>Signature</b>
Prof. Dr. Estrella I. Agüera	32 