Annex No. 3

External Evaluation
Report Doctoral Study
Domain Mathematics
University of Bucharest

Prof. Dr.Norbert Grünwald
Hochschule Wismar, Germany

30th of November 2021

I. Introduction[1]

This report summarizes my impressions as ARACIS International Expert Evaluator of the Doctoral Study Domain Mathematics within University of Bucharest (UB). The evaluation of university Doctoral Domain Mathematics at the University of Bucharest was carried out by ARACIS in view of maintaining accreditation, procedure of quality assurance aimed to certify fulfillment of operating standards by the institutions organizing university doctoral studies, based on

- Law of National Education No 1/2011
- Government Emergency Ordinance no. 75/2005 on Quality Assurance of Education, approved with amendments and additions by Law No 87/2006, as amended and supplemented subsequently (in particular Articles 10, 13 and 29)
- Romanian Government Decision No. 681 of 29 June 2011 on the approval of the Code of Doctoral Studies, with subsequent amendments and additions
- Order 3651 of 12.04.2021 of the Minister of Education to approve the Methodology for evaluation of doctoral studies and the systems of criteria, standards and performance indicators used in the evaluation and the systems of criteria, standards and performance indicators used in the evaluation.

The evaluation processes was performed by the Romanian Agency for Quality Assurance in Higher Education (ARACIS), who recruited the following Experts Committee, in charge of Evaluation of the Doctoral Domain Mathematics at the University of Bucharest:

Nr. crt.	Numele și Prenumele / *Name and first name*	Universitatea / *University*	Date de contact / *mobil and email*
Domeniul fundamental - MATEMATICĂ ȘI ȘTIINȚE ALE NATURII *Fundamental domain -MATHEMATICS AND NATURAL SCIENCES*			
Matematică / *Mathematics* Contact UB/CSUD-DD - Prof. Liviu MARIN / 0752172867 / liviu.marin@fmi.unibuc.ro			
1	*Coordinator* Prof. Dr. Marin Marin	Universitatea "Transilvania" din Brasov	
2.	*International expert* Prof. Norbert Gruenwald	University of Applied Sciences Technology, Business and Design	
3	*PhD student* Besnea Florina-Luminița	Universitatea din Craiova	

The evaluation period extended from 17/11/2021 to 26/11/2021, and it was developed in a hybrid mode, meaning that the evaluation took place as online meetings and well as on-site visits.

Online meetings were provided with a translation into English

After my appointment as an International Expert Evaluator, I was informed by Florentina Paraschiv from ARACIS of the evaluation team on important aspects of the evaluation process, and how to access to the evaluation documents (Internal Evaluation Report and annexes)

Background

The Doctoral Studies at the University of Bucharest

The doctoral studies are a tradition of the University of Bucharest's educational and research activity. At the institutional level, the conferral of doctoral degrees was regulated in Romania in 1897-1899. The recipient of the first doctoral title awarded by a Romanian university was Ion Petrovoci who in June 1905 defended a dissertation entitled "The PsychoPhysical Parallelism" at the University of Bucharest's Faculty of Letters and Philosophy.education and research processes and optimization of the joint use of human resources, materials and financial.

Presently, there are 22 doctoral schools and 19 scientific fields functioning at the University of Bucharest. The doctoral studies represent a highly specialised area of activities thus contributing to the achievement of the three-pronged mission of the University of Bucharest. The university's mission includes the following three main components:

- contributing to the advancement of scientific knowledge,
- teaching students to become highly qualified specialists, and
- participating in the identification and implementation of useful solutions for the general development of society.

Through the quality of the doctoral studies it offers and the doctoral dissertations defended as well as through the professional and personal training of the PhD holders, the University of Bucharest is aiming to be at the forefront of the Romanian higher education.

Doctoral School of Mathematics at University of Bucharest

Mathematical research performed at the University of Bucharest has an old and good tradition with respect to the Romanian academic environment. The Doctoral School of Mathematics was established, in its present structure, in 2005. In 2011, the structure of the doctoral school has severely been changed, whilst Law no. 1/2011 on national education has been applied.

II. Methods used/Evaluation Materials

1. *Self Assessment Report (in English)*

2. *Online meetings (with English translation)*

3. *Website of Doctoral School University of Bucharest (English documents)*

III.   *Analysis of performance indicators*

Wednesday, 17.11.2021
17:00 – 19:00: *Online preliminary meeting for discussing main methodological aspects related to the evaluation of doctoral studies*.
Evaluators were informed about doctoral domain team members, evaluation process and regulations

Monday, 22.11.2021
09:00 – 09:50: *Online preliminary meeting for the preparation and harmonization of evaluation steps, in hybrid mode, of doctoral study domains and IOSUD*
Evaluators were informed about doctoral domain team members, evaluation process and regulations

10:00 – 10:50: *Online meeting with representatives of the institution and of the Council for Academic Doctoral Studies (CSUD)*
Evaluators get general information about PhD study programme structures and processes

11:00 – 11:50: *Online meeting with the contact person for the doctoral study domain under review and the team who drafted the internal evaluation report*

15:00 – 15:50*: Online meeting with graduates for the respective doctoral study domain*
The present graduates acknowledged and appreciate most during their PhD study the closed relation and interaction with the supervisor.
In return they were missing mostly the relation and communication with other PhD students ("sometime feel alone")

17:00 – 18:00*: Online meeting with the Commission for Quality Evaluation and Assurance (CEAC) members/ Quality Assurance Department*
The UB has tools and mechanisms in place to design and manage method used in for continuous improvement of educational and management processes. However, most processes are isolated and not bring together in one cycle (e.g. Plan – Do – Ceck – Act (PDCA cycle))
Employers are mostly not involved in PhD QM processes
Students satisfaction feedback questionnaires need to be developed

Tuesday, 23.11.2021
09:00 - 09:50: *Online meeting with the members of the Ethics Commission*
Most cased in the Ethic Commission deals with plagiarism
Some cases were not finished because of time limit to answer (need to find a solution that every case could be solved/answered)
There is also an Ethical Commission for research

11:00 – 11:50: *Online meeting with the academic staff corresponding to the doctoral study Domain*
The most challenges for supervisors of PhD students are
- Demand of students to spend a lot of time for discussion their PhD development
- Students expect unrealistic results from their PhD
- Financing of good potential students

Would strongly support scientific conferences for UB PhD students from different domains
Criticise that performance evaluation is mostly based on quantitative indicators (e.g. number of papers). Qualitative indicators would be much better for the Mathematical

domain.

I period of 3 years for a PhD is mostly to short (recommend 4 years)

13:00 – 13:50: Online meeting with PhD students
To get a place in the PhD study the students contact first the known Professor
PhD students have not filled any feedback questionnaire
PhD students feel good integrated in research projects of their supervisor and Professors
There are less/no contacts to other PhD students
In direction transversal skills there were only "Ethics"
PhD students have closed contacts to the supervisor and are not aware and some even not interested to know their (PhD students) representatives in UB bodies
PhD students have not applied for extra funds

16:00 – 16:50: *Online technical meeting to identify specific issues that need to be clarified, if necessary, during the on-site visit*
No special issue

Friday, 26.11.2021
13:00 – 14:20: Online meeting for conclusions
Coordinator of PhD Mathematical domain informs about evaluation results so far

IV. *Overview of judgments awarded and of the recommendations*

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
1.	PI	**A.1.1.1.** The existence of specific regulations and their application at the level of the Doctoral School of the respective university doctoral study domain: a) the internal regulations of the Doctoral School; b) the Methodology for conducting elections for the position of director of the Council of doctoral school (CSD), as well as elections by the students of their representative in CSD and the evidence of their conduct; c) the Methodologies for organizing and conducting doctoral studies (for the admission of doctoral students, for the completion of doctoral studies); d) the existence of mechanisms for recognizing the status of a Doctoral advisor and the equivalence of the doctoral degree obtained abroad; e) functional management structures (Council of the doctoral school), giving as well proof of the regularity of meetings; f) the contract for doctoral studies;	**fulfilled**	Especially for international doctorate candidates make all documents on the website vailable in English

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
		g) internal procedures for the analysis and approval of proposals regarding the training for doctoral study programs based on advanced academic studies.		
2.	PI	**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.	**Fulfilled**	
3.	PI	**A.1.2.1.** The existence and effectiveness of an appropriate IT system to keep track of doctoral students and their academic background.	**Fulfilled**	
4.	PI	**A.1.2.2.** The existence and use of an appropriate software program and evidence of its use to verify the percentage of similarity in all doctoral theses.	**Fulfilled**	Note: From a higher percentage of similaryty do not conclude immediately plagiarism. In many disciplines are commen phrases for typical methodological approaches.
5.	IP	**A.1.3.1.** Existence of at least one research or institutional / human resources development grant under implementation at the time of submission of the internal evaluation file, per doctoral study domain under evaluation, or existence of at least 2 research or institutional development / human resources grant for the doctoral study domain, obtained by doctoral thesis advisors operating in the evaluated domain within the past 5 years. The grants address relevant themes for the respective domain and, as a rule, are engaging doctoral students.	**fulfilled**	
6.	PI *	**A.1.3.2.** The percentage of doctoral students active at the time of the evaluation, who for at least six months receive additional funding sources besides government funding, through scholarships awarded by individual persons or by legal entities, or who are financially supported through research or institutional / human resources development grants is not less than 20%.	**fulfilled**	
7.	PI *	**A.1.3.3.** At least 10% of the total amount of doctoral grants obtained by the university through institutional contracts and of tuition fees collected from the doctoral students enrolled in the paid tuition system is used to reimburse professional training expenses of doctoral students (attending conferences, summer schools, training, programs abroad, publication of specialty papers or other specific forms of dissemination etc.).	**fulfilled**	

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
8.	CPI	**A.2.1.1.** The venues and the material equipment available to the doctoral school enable the research activities in the evaluated domain to be carried out, in line with the assumed mission and objectives (computers, specific software, equipment, laboratory equipment, library, access to international databases etc.). The research infrastructure and the provision of research services are presented to the public through a specific platform. The research infrastructure described above, which was purchased and developed within the past 5 years will be presented distinctly	**fulfilled**	
9.	CPI	**A.3.1.1.** Minimum three doctoral thesis advisors within that doctoral domain, and at least 50% of them (but no less than three) meet the minimum standards of the National Council for Attestation of University Degrees, Diplomas and Certificates (CNATDCU) in force at the time when the evaluation is carried out, which standards are required and mandatory for obtaining the enabling certification.	**fulfilled**	
10.	PI *	**A.3.1.2.** At least 50% of all doctoral advisors have a full-time employment contract for an indefinite period with the IOSUD.	**fulfilled**	
11.	PI	**A.3.1.3.** The study subjects in the education program based on advanced higher education studies pertaining to the doctoral domain are taught by teaching staff or researchers who are doctoral thesis advisors / certified doctoral thesis advisors, professors / CS I or lecturer / CS II, with proved expertise in the field of the study subjects they teach, or other specialists in the field who meet the standards established by the institution in relation with the aforementioned teaching and research functions, as provided by the law.	**fulfilled**	Recommendation: Critical thinking and problem-solving top the list of skills that employers believe will grow in prominence in the next five years. These have been consistent since the first WEF report in 2016. But newly emerging are additional skills in self-management such as active learning, resilience, stress tolerance and flexibility. It would be good to implement the acquisition of such skills in the doctorate curriculum.
12.	PI *	**A.3.1.4.** The percentage of doctoral thesis advisors who concomitantly coordinate more than 8 doctoral students, but no more than 12, who are themselves studying in doctoral programs does not exceed 20%.	**fulfilled**	
13.	CPI	**A.3.2.1.** At least 50% of the doctoral thesis advisors in the evaluated domain have at least 5 Web of Science- or ERIH-indexed publications in magazines of impact, or other achievements of relevant significance for that domain, including international-level contributions that indicate progress in scientific research - development - innovation	**fulfilled**	Recommendation: It is recommended the doctoral supervisors should be more active in activities that increase international visibility, e.g. membership in international scientific committees of international publications or conferences.

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
		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.		
14.	PI *	**A.3.2.2.** At least 50% of the doctoral thesis advisors in a specific doctoral study domain continue to be active in their scientific field, and acquire at least 25% of the score requested by the minimal CNATDCU standards in force at the time of the evaluation, which are required and mandatory for acquiring their enabling certificate, based on their scientific results within the past five years	**fulfilled**	
15.	PI *	**B.1.1.1.** The ratio between the number of graduates of masters' programs of other higher education institutions, national or foreign, who have enrolled for the doctoral admission contest within the past five years and the number of seats funded by the state budget, put out through contest within the doctoral domain is at least 0.2 or the ratio between the number of candidates within the past five years and the number of seats funded by the state budget put out through contest within the doctoral studies domain is at least 1,2.	**fulfilled**	
16.	PI *	**B.1.2.1.** Admission to doctoral study programs is based on selection criteria including: previous academic, research and professional performance, their interest for scientific or arts/sports research, publications in the domain and a proposal for a research subject. Interviewing the candidate is compulsory, as part of the admission procedure.	**fulfilled**	
17.	PI	**B.1.2.2.** The expelling rate, including renouncement / dropping out of doctoral	**fulfilled**	

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
		students 3, respectively 4, years after admission does not exceed 30%.		
18.	PI	**B.2.1.1.** The training program based on advanced academic studies includes at least 3 disciplines relevant to the scientific research training of doctoral students; at least one of these disciplines is intended to study in-depth the research methodology and/or the statistical data processing.	**fulfilled**	
19.	PI	**B.2.1.2.** At least one discipline is dedicated to Ethics and Intellectual Property in scientific research or there are well-defined topics on these subjects within a discipline taught in the doctoral program.	**fulfilled**	
20.	PI	**B.2.1.3.** The IOSUD has mechanisms to ensure that the academic training program based on advanced university studies addresses „the learning outcomes", specifying the knowledge, skills, responsibility and autonomy that doctoral students should acquire after completing each discipline or through the research activities.	**fulfilled**	
21.	PI	**B.2.1.4.** All along the duration of the doctoral training, doctoral students in the domain receive counselling/guidance from functional guidance commissions, which is reflected in written guidance and feedback or regular meeting.	**fulfilled**	
22.	CPI	**B.2.1.5**. For a doctoral study domain, the ratio between the number of doctoral students and the number of teaching staff/researchers providing doctoral guidance must not exceed 3:1.	**fulfilled**	
23.	CPI	**B.3.1.1.** For the evaluated domain, the evaluation commission will be provided with at least one paper or some other relevant contribution per doctoral student who has obtained a doctor's title within the past 5 years. From this list, the members of the evaluation commission shall randomly select 5 such papers / relevant contributions per doctoral study domain for review. At least 3 selected papers must contain significant original contributions in the respective domain	**fulfilled**	
24.	PI *	**B.3.1.2.** The ratio between the number of presentations of doctoral students who completed their doctoral studies within the evaluated period (past 5 years), including posters, exhibitions made at prestigious international events (organized in the country or abroad) and the number of doctoral	**fulfilled**	

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
		students who have completed their doctoral studies within the evaluated period (past 5 years) is at least 1.		
25.	PI *	**B.3.2.1.** The number of doctoral theses allocated to one specialist coming from a higher education institution, other than the evaluated IOSUD should not exceed two (2) in a year for the theses coordinated by the same doctoral thesis advisor.	**fulfilled**	
26.	PI *	**B.3.2.2.** The ratio between the doctoral theses allocated to one scientific specialist coming from a higher education institution, other than the institution where the defense on the doctoral thesis is organized, and the number of doctoral theses presented in the same doctoral study domain in the doctoral school should not exceed 0.3, considering the past five years. Only those doctoral study domains in which minimum ten doctoral theses have been presented within the past five years should be analyzed.	**fulfilled**	
27.	PI	**C.1.1.1.** The Doctoral school in the respective university study domain shall demonstrate the continuous development of the evaluation process and its internal quality assurance following a procedure developed and applied at the level of the IOSUD, the following assessed criteria being mandatory: a) the scientific work of Doctoral advisors; b) the infrastructure and logistics necessary to carry out the research activity; 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.	**fulfilled**	Recommendation: It is recommendet that the doctoral students from different supervisors and even different domains have regulary organised meeting to exchange/present their work and support interdisciplinary cooperation.
28.	PI *	**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.	**partially fulfilled**	Recommendation It is strongly recommendet to motivate the students to participate in feedback questionnaires and inform them about the results and actions of feedback questionnaires
29.	CPI	**C.2.1.1.** The IOSUD publishes on the website of the organizing institution, in compliance with	**fulfilled**	

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
		the general regulations on data protection, information such as: a) the Doctoral School regulation; b) the admission regulation; c) the doctoral studies contract; d) the study completion regulation including the procedure for the public presentation of the thesis; e) the content of training program based on advanced academic studies; f) the academic and scientific profile, thematic areas/research themes of the Doctoral advisors within the domain, as well as their institutional contact data; g) the list of doctoral students within the domain with necessary information (year of registration; advisor); h) information on the standards for developing the doctoral thesis; i) links to the doctoral theses' summaries to be publicly presented and the date, time, place where they will be presented; this information will be communicated at least twenty days before the presentation.		
30.	PI	**C.2.2.1.** All doctoral students have free access to one platform providing academic databases relevant to the doctoral studies domain of their thesis.	**fulfilled**	
31.	PI	**C.2.2.2.** Each doctoral student shall have access, upon request, to an electronic system for verifying the degree of similarity with other existing scientific or artistic works.	**fulfilled**	
32.	PI	**C.2.2.3.** All doctoral students have access to scientific research laboratories or other facilities depending on the specific domain/domains within the Doctoral School, according to internal order procedures.	**fulfilled**	
33.	PI *	**C.3.1.1.** IOSUD, for every evaluated domain, has concluded mobility agreements with universities abroad, with research institutes, with companies working in the field of study, aimed at the mobility of doctoral students and academic staff (e.g., ERASMUS agreements for the doctoral studies). At least 35% of the doctoral students have completed a training course abroad or other mobility forms such as attending international scientific conferences. IOSUD drafts and applies policies and measures aiming at increasing the number of doctoral students participating at mobility periods abroad, up to at least 20%, which is the target at the level of the European Higher Education Area.	**fulfilled** (COVID regulations do not allow physical travel since 2020	Recommendations: It is recommended to increase the number of international mobility agreements for doctoral sutdents (e.g. Erasmus) with partner universities.

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
34.	**PI**	**C.3.1.2.** In the evaluated doctoral study domain, support is granted, including financial support, to the organization of doctoral studies in international co-tutelage or invitation of leading experts to deliver courses/lectures for doctoral students.	**fulfilled**	Recommendation It is recommended to use personal contacts of doctoral school staff in their national and international scientific network to attract experts for co-supervision for doctoral students. It is recommendet to allocate a fixed budget from the university funds and try to find additional grants for such activities
35.	**PI**	**C.3.1.3.** The internationalization of activities carried out during the doctoral studies is supported by IOSUD through concrete measures (e.g., by participating in educational fairs to attract international doctoral students; by including international experts in guidance committees or doctoral committees etc.).	**fulfilled**	Recommendation It is recommended to use personal contacts of doctoral school staff in their national and international scientific network to promote doctoral studies and attract external candidates for doctoral studies at University of Bucharest

V. SWOT Analysis

Strength:

The Doctoral Domain at UO benefits from the following:
- Strong engagement for and high qualified supervisors in the Doctoral School,
- The level of involvement of doctoral supervisors in attracting funds for research by participating in domestic and international competitions,
- Integration of doctoral students into research projects,
- Very good implemented strategy for the further internationalization of doctoral studies
- Excellent integration of supervisors in national and international scientific networks,
- Very good and close cooperation between student and supervisor
- Commitment of UO to develop the Mathematical Doctoral School

Weakness:

- Less candidates for a doctoral study than available positions and low number of international doctoral students.
- Low number of international co-supervised doctoral studies.
- The UB has tools and mechanisms in place to identify the needs and satisfaction of students through specific questionnaires. However, the PhD students, participating in the online meeting, were largely unaware about questionnaires, about the results of questionnaires and action plan based on answers of the questionnaires.
- The teaching of transversal skills is more or less reduced to lectures in Professional "Ethics and Academic Integrity".
- The doctoral students participating in the online meeting confirming less interaction between students from different supervisors as well as interactions between students from different doctoral schools at UB.
- potential employers are not involved in advisory board

Opportunities:

- Using the strategy for the further internationalization of doctoral studies and the excellent integration of doctoral supervisors in international networks to attract more international doctoral candidates and students
- Using the excellent integration of doctoral supervisors in international networks to attract more international co-supervisors for doctoral students
- Integrate into the doctoral studies the development of transversal skills like "Problem Solving", "Critical Thinking", "Team Working", what are on top skills needed for personal development as well as demanded from employers, to further increase the employability of doctoral graduates.
- Strengthen the interaction between students from different supervisors as well as interactions between students from different doctoral schools at UO (e.g. with doctoral summer schools, doctoral seminars etc.).
- The UB has tools and mechanisms in place to design and manage method used in for continuous improvement of educational and management processes. However, most processes are isolated and not bring together in one cycle (e.g. Plan – Do – Ceck – Act (PDCA cycle))
- Integrate potential employers (even from industry) into the advisory board

Threats:
- The financial situation to support the doctoral school, especially to support financially mobility of students as well as financials support for publications of the doctoral students.

VI. Conclusions and general recommendations

Beyond any doubt, the doctoral Doctoral Study Domain Mathematics within the University of Bucharest has remarkable quality and benefits of highly qualified doctoral Supervisors.

The individual supervision and care of the doctoral students are excellent and are very much appreciated by the students. However, for the personal development of the doctoral students it would be good to communicate and exchange ideas with other students. It is recommended that the university organise some scientific communication sessions for doctoral students, and motivate the doctoral students to participate in such sessions.

The supervisors of the doctoral school are very good integrated in national and international networks. Using this excellent integration of doctoral supervisors in national and international networks to increase the number of external doctoral students

For the personal development and better employability of the students it is recommended to implement during the doctoral studies skills like "Problem Solving", "Critical Thinking", "Team Working", and "Communication", and support the cooperation between doctoral students from different supervisors and disciplines.

The UB was partner with other international partners in the "Career Tracking Survey of Doctorate Holders" project. It is recommended to use this experiences to continuously survey the graduates and create an alumni network.

There are several structures responsible for the continuous quality insurance and improvement in place, however I recommend to organized all these activities in one clear cycle and document it in such a way (e.g. PDCA) and give feedback of the activities to clients (students, university, society).

It is recommended to integrate potential employers into the advisory board of doctoral students for a better employability of the students and openness of the university to society.

Prof. Dr. Norbert Gruenwald
Wismar University

Annexes

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

ÎNTÂLNIRE PRELIMINARA/ PRELIMINARY MEETING

Programul de evaluare IOSUD și a domeniilor de studii universitare de doctorat
a **Universității din București (UB)**
The timetable for the evaluation of IOSUD and doctoral study domains
*at the **University of Bucharest (UB)***

Intervalul orar/ *Hour*	Activități de evaluare/ *Evaluation activities*	Participanți/ *Participants*
Miercuri/ *Wednesday*, 17.11.2021		
17:00 – 19:00	Întâlnire preliminară online pentru discutarea principalelor aspecte metodologice legate de activitatea de evaluare a studiilor universitare de doctorat *Online preliminary meeting for discussing main methodological aspects related to the evaluation of doctoral studies* **Link întâlnire ZOOM (*ARACIS*) / *Meeting link ZOOM platform (by ARACIS):* LINK**	**Comisiile de evaluare pentru IOSUD și domenii de doctorat** *IOSUD & doctoral domains evaluation panels*

Programul de evaluare IOSUD și a domeniilor de studii universitare de doctorat
a Universității din București (UB)
The timetable for the evaluation of IOSUD and doctoral study domains
at the University of Bucharest (UB)

Perioada de derulare a evaluării / *The evaluation period*: **22-26.11.2021**

Intervalul orar/ *Hour*	Activități de evaluare/ *Evaluation activities*	Participanți/ *Participants*
	Luni/ *Monday*, 22.11.2021	
09:00-09:50	Întâlnire preliminară online pentru pregătirea și armonizarea etapelor de evaluare, în modul mixt, la nivel de domenii de doctorat și IOSUD *Online preliminary meeting for the preparation and harmonization of evaluation steps, in hybrid mode, of doctoral study domains and IOSUD* **Link întâlnire ZOOM (*ARACIS*) / *Meeting link ZOOM platform (by ARACIS):* LINK**	**Comisiile de evaluare pentru IOSUD și domenii de doctorat** *IOSUD & doctoral domains evaluation panels*
10:00-10:50	Întâlnirea online a comisiei de experți evaluatori cu reprezentanții conducerii universității și ai CSUD *Online meeting with representatives of the institution and of the Council for Academic Doctoral Studies (CSUD)* **Link întâlnire ZOOM (UB) / *Meeting link ZOOM platform (by UB)* : LINK**	**Comisiile de evaluare pentru IOSUD și domenii de doctorat** *IOSUD & doctoral domains evaluation panels* - reprezentanți ai conducerii *representatives of the University's management* - reprezentanți ai CSUD și ai școlii/școlilor doctorale *representatives of the CSUD and of the Doctoral School/Schools* - persoana de contact IOSUD/domenii doctorale *the contact person for IOSUD/ doctoral domains*

11:00-11:50	**Domeniu doctorat_1:** Întâlnire online a comisiei de experți evaluatori cu **responsabilul domeniului de studii** universitare de doctorat evaluat și cu echipa care a realizat raportul de evaluare internă *Doctoral domain_1: Online meeting with the contact person for the doctoral study domain under review and the team who drafted the internal evaluation report* **Linkuri întâlniri ZOOM (UB) / *Meeting links ZOOM platform (by UB):*** **Matematică /** *Mathematics* **LINK** **Geologie /** *Geology* **LINK** **Informatică /** *Informatics* **LINK** **Ştiinţa mediului /** *Environmental Science* **LINK** **Chimie /** *Chemistry* **LINK** **Studii culturale /** *Cultural Studies* **LINK** **Fizică /** *Physics* **LINK** **Psihologie /** *Psychology* **LINK** **Geografie /** *Geography* **LINK** **Teologie /** *Theology* **LINK**	**- Comisiile de evaluare domenii de doctorat** *Doctoral domains evaluation panels* - responsabilul domeniului de studii universitare de doctorat evaluat și echipa care a realizat raportul de evaluare internă *The doctoral studies domain contact person and the team who drafted the internal evaluation report*
12:00-12:50	**Domeniu doctorat_2:** Întâlnire online a comisiei de experți evaluatori cu **responsabilul domeniului de studii** universitare de doctorat evaluat și cu echipa care a realizat raportul de evaluare internă *Doctoral domain_2: Online meeting with the contact person for the doctoral study domain under review and the team who drafted the internal evaluation report* **Linkuri întâlniri ZOOM (UB) / *Meeting links ZOOM platform (by UB):*** **Sociologie /** *Sociology* **LINK** **Filosofie /** *Philosophy* **LINK** **Ştiinţe politice /** *Political Science* **LINK** **Istorie /** *History* **LINK** **Drept /** *Law* **LINK** **Ştiinţe ale comunicării /** *Communication Sciences* **LINK** **Ştiinţe ale educaţiei /** *Education Sciences* **LINK** **Biologie /** *Biology* **LINK** **Filologie /** *Philology* **LINK**	**- Comisiile de evaluare domenii de doctorat** *Doctoral domains evaluation panels* - responsabilul domeniului de studii universitare de doctorat evaluat și echipa care a realizat raportul de evaluare internă *The doctoral studies domain contact person and the team who drafted the internal evaluation report*
12:00-12:50	Întâlnire online a comisiei de experți evaluatori cu **personalul didactic** domeniului evaluat *Online meeting with the academic staff corresponding to the doctoral study domain* **Linku întâlnire ZOOM (UB) / *Meeting link ZOOM platform (by UB):*** **Chimie /** *Chemistry* **LINK**	**Comisia de evaluare domeniu de doctorat CHIMIE** *CHEMISTRY - DD evaluation panel*

13:00-13:50	**IOSUD:** Întâlnire online cu **directorul CSUD**/directorii școlilor doctorale din IOSUD supus procesului de evaluare și cu **echipa care a realizat raportul de evaluare internă** _IOSUD: Online meeting with the director of CSUD/ directors of doctoral schools and the team who drafted the internal evaluation report_ **Link întâlnire ZOOM (UB) /** _Meeting link ZOOM platform (by UB)_ : **LINK**	**- Comisia de evaluare IOSUD** _IOSUD evaluation panel_ - reprezentanți ai CSUD și ai școlii/școlilor doctorale/ IOSUD _representatives of CSUD and of doctoral school(s)/IOSUD_
14:00-14:50	IOSUD: Întâlnire online a comisiei de evaluare cu **reprezentanți ai absolvenților** IOSUD _IOSUD: Online meeting with IOSUD graduates_ **Link întâlnire ZOOM (UB) /** _Meeting link ZOOM platform (by UB)_ : **LINK**	**- Comisia de evaluare IOSUD** _IOSUD evaluation panel_ - reprezentanți ai absolvenților _representatives of doctoral graduates_
15:00-15:50	Domeniu doctorat_1: Întâlnire online a comisiei de evaluare cu **reprezentanți ai absolvenților** domeniului _Doctoral domain_1: Online meeting with graduates for the respective doctoral study domain_ **Linkuri întâlniri ZOOM (UB) /** _Meeting links ZOOM platform (by UB):_ **Matematică** / _Mathematics_ **LINK** **Geologie** / _Geology_ **LINK** **Informatică** / _Informatics_ **LINK** **Știința mediului** / _Environmental Science_ **LINK** **Chimie** / _Chemistry_ **LINK** **Studii culturale** / _Cultural Studies_ **LINK** **Fizică** / _Physics_ **LINK** **Psihologie** / _Psychology_ **LINK** **Geografie** / _Geography_ **LINK** **Teologie** / _Theology_ **LINK**	**- Comisiile de evaluare domenii de doctorat** _Doctoral domains evaluation panels_ - reprezentanți ai absolvenților _representatives of doctoral graduates_
16:00-16:50	Domeniu doctorat_2: Întâlnire online a comisiei de evaluare cu **reprezentanți ai absolvenților** domeniului _Doctoral domain 2: Online meeting with graduates for the respective doctoral study domain_ **Linkuri întâlniri ZOOM (UB) /** _Meeting links ZOOM platform (by UB):_ **Sociologie** / _Sociology_ **LINK** **Filosofie** / _Philosophy_ **LINK** **Științe politice** / _Political Science_ **LINK** **Istorie** / _History_ **LINK** **Drept** / _Law_ **LINK** **Științe ale comunicării** / _Communication Sciences_ **LINK** **Științe ale educației** / _Education Sciences_ **LINK** **Biologie** / _Biology_ **LINK** **Filologie** / _Philology_ **LINK**	**- Comisiile de evaluare domenii de doctorat** _Doctoral domains evaluation panels_ - reprezentanți ai absolvenților _representatives of doctoral graduates_

17:00 - 18:00	Întâlnire online cu membrii **Comisiei pentru Evaluarea și Asigurarea Calității (CEAC)/** Departamentul de asigurare a calității *Online meeting with the Commission for Quality Evaluation and Assurance (CEAC) members/ Quality Assurance Department* **Link întâlnire ZOOM (UB) /** *Meeting link ZOOM platform (by UB)* : **LINK**	**- Comisiile de evaluare pentru IOSUD și domenii de doctorat** *IOSUD&doctoral domains evaluation panels* - reprezentanți ai CEAC/Departament AC *representatives of Commission for Quality Evaluation and Assurance (CEAC)/ Quality Assurance Department*
Marți/ *Tuesday*, 23.11.2021		
09:00 - 09:50	Întâlnire online cu membrii **Comisiei de Etică** a universității *Online meeting with the members of the Ethics Commission* **Link întâlnire ZOOM (UB) /** *Meeting link ZOOM platform (by UB)* : **LINK**	**- Comisiile de evaluare pentru IOSUD și domenii de doctorat** *IOSUD&doctoral domains evaluation panels* -membrii Comisiei de Etică *Ethics Commission members*
10:00 - 10:50	IOSUD: Întâlnire online a comisiei de experți evaluatori cu **personalul didactic** aferent școlilor doctorale din IOSUD *IOSUD: Online meeting with IOSUD academic staff* **Link întâlnire ZOOM (UB) /** *Meeting link ZOOM platform (by UB)* : **LINK**	**- Comisia de evaluare pentru IOSUD** *IOSUD evaluation panel* - cadre didactice cu titlul de conducător de doctorat *Doctoral coordinators*
11:00- 11:50	Domeniu doctorat_1: Întâlnire online a comisiei de experți evaluatori cu **personalul didactic** aferent domeniului evaluat *Doctoral domain_1: Online meeting with the academic staff corresponding to the doctoral study domain* **Linkuri întâlniri ZOOM (UB) /** *Meeting links ZOOM platform (by UB):* **Matematică /** *Mathematics* **LINK** **Geologie /** *Geology* **LINK** **Informatică /** *Informatics* **LINK** **Ştiinţa mediului /** *Environmental Science* **LINK** **Fizică /** *Physics* **LINK** **Studii culturale /** *Cultural Studies* **LINK** **Geografie /** *Geography* **LINK** **Psihologie /** *Psychology* **LINK** **Teologie /** *Theology* **LINK**	**- Comisiile de evaluare domenii de doctorat** *Doctoral domains evaluation panels* - cadre didactice cu titlul de conducător de doctorat *Doctoral coordinators*

12:00-12:50	<u>Domeniu doctorat_2</u>: Întâlnire online a comisiei de experți evaluatori cu **personalul didactic** aferent domeniului evaluat *<u>Doctoral domain_2:</u> Online meeting with the academic staff corresponding to the doctoral study domain* **Linkuri întâlniri ZOOM (UB) / *Meeting links ZOOM platform (by UB):*** **Sociologie /** *Sociology* **LINK** **Filosofie /** *Philosophy* **LINK** **Științe politice /** *Political Science* **LINK** **Istorie /** *History* **LINK** **Drept /** *Law* **LINK** **Științe ale comunicării /** *Communication Sciences* **LINK** **Științe ale educației /** *Education Sciences* **LINK** **Biologie /** *Biology* **LINK** **Filologie /** *Philology* **LINK**	**- Comisiile de evaluare domenii de doctorat** *Doctoral domains evaluation panels* - cadre didactice cu titlul de conducător de doctorat *Doctoral coordinators*
13:00-13:50	<u>Domeniu doctorat_1</u>: Întâlnire online a comisiei de evaluare cu **studenții doctoranzi** *<u>Doctoral domain_1:</u> Online meeting with PhD students* **Linkuri întâlniri ZOOM (*ARACIS*) / *Meeting links ZOOM platform (by ARACIS):*** **Matematică /** *Mathematics* **LINK** **Geologie /** *Geology* **LINK** **Informatică /** *Informatics* **LINK** **Știința mediului /** *Environmental Science* **LINK** **Fizică /** *Physics* **LINK** **Studii culturale /** *Cultural Studies* **LINK** **Geografie /** *Geography* **LINK** **Psihologie /** *Psychology* **LINK** **Teologie /** *Theology* **LINK**	**- Comisiile de evaluare domenii de doctorat** *Doctoral domains evaluation panels* - studenții doctoranzi *PhD students*
14:00-14:50	<u>Domeniu doctorat_2</u>: Întâlnire online a comisiei de evaluare cu **studenții doctoranzi** *<u>Doctoral domain_2:</u> Online meeting with PhD students* **Linkuri întâlniri ZOOM (*ARACIS*) / *Meeting links ZOOM platform (by ARACIS):*** **Sociologie /** *Sociology* **LINK** **Filosofie /** *Philosophy* **LINK** **Științe politice /** *Political Science* **LINK** **Istorie /** *History* **LINK** **Drept /** *Law* **LINK** **Științe ale comunicării /** *Communication Sciences* **LINK** **Științe ale educației /** *Education Sciences* **LINK** **Biologie /** *Biology* **LINK** **Filologie /** *Philology* **LINK** **Chimie /** *Chemistry* **LINK**	**- Comisiile de evaluare domenii de doctorat** *Doctoral domains evaluation panels* - studenții doctoranzi *PhD students*

15:00-15:50	IOSUD: Întâlnire online a comisiei de evaluare cu **studenții doctoranzi** *IOSUD: Online meeting with PhD students* **Link întâlniri ZOOM (*ARACIS*) / *Meeting link ZOOM platform (by ARACIS):* LINK**	- **Comisia de evaluare IOSUD** *IOSUD evaluation panel* - studenții doctoranzi / *PhD students*
16:00-16:50	Întâlnire tehnică online, pentru identificarea aspectelor specifice care trebuie clarificate, dacă este cazul, pe parcursul vizitei la fața locului *Online technical meeting to identify specific issues that need to be clarified, if necessary, during the on-site visit* **Link întâlniri ZOOM (*ARACIS*) / *Meeting link ZOOM platform (by ARACIS):* LINK**	**Comisiile de evaluare pentru IOSUD și domenii de doctorat** *IOSUD&doctoral domains evaluation panels*
<td colspan="3" align="center">**Miercuri/ *Wednesday*, 24.11.2021**</td>		
09:00-09:50	IOSUD: Întâlnire online cu **directorii/responsabilii centrelor/laboratoarelor** de cercetare IOSUD *IOSUD: Online meeting with the Directors/ persons in charge of the research centers/laboratories within IOSUD* **Link întâlnire ZOOM (UB) / *Meeting link ZOOM platform (by UB)* : LINK**	- **Comisia de evaluare IOSUD** *IOSUD evaluation panel* - directorii centrelor/ laboratoarelor de cercetare *Directors of the research centers/laboratories*
10:00-10:50	Domeniu doctorat 1: Întâlnire online cu **directorii/responsabilii centrelor/laboratoarelor de cercetare** aferente domeniului de studii universitare de doctorat *Doctoral domain 1: Online meeting with the Directors/ persons in charge of the research centers/laboratories within the doctoral study domain* **Linkuri întâlniri ZOOM (UB) / *Meeting links ZOOM platform (by UB):*** **Matematică** / *Mathematics* **LINK** **Geologie /** *Geology* **LINK** **Informatică** / *Informatics* **LINK** **Ştiinţa mediului /** *Environmental Science* **LINK** **Fizică /** *Physics* **LINK** **Studii culturale /** *Cultural Studies* **LINK** **Geografie /** *Geography* **LINK** **Psihologie /** *Psychology* **LINK** **Teologie /** *Theology* **LINK**	- **Comisiile de evaluare domenii de doctorat** *Doctoral domains evaluation panels* - directorii centrelor/ laboratoarelor de cercetare *directors of research centers/laboratories*

11:00-11:50	<u>Domeniu doctorat_2</u>: Întâlnire online cu **directorii/responsabilii centrelor/laboratoarelor de cercetare** aferente domeniului de studii universitare de doctorat *<u>Doctoral domain_2:</u> Online meeting with the Directors/ persons in charge of the research centers/laboratories within the doctoral study domain* **Linkuri întâlniri ZOOM (UB)** / *Meeting links ZOOM platform (by UB):* **Sociologie /** *Sociology* **LINK** **Filosofie /** *Philosophy* **LINK** **Științe politice /** *Political Science* **LINK** **Istorie /** *History* **LINK** **Drept /** *Law* **LINK** **Științe ale comunicării /** *Communication Sciences* **LINK** **Științe ale educației /** *Education Sciences* **LINK** **Biologie /** *Biology* **LINK** **Filologie /** *Philology* **LINK**	**- Comisiile de evaluare domenii de doctorat** *Doctoral domains evaluation panels* - directorii centrelor/ laboratoarelor de cercetare *directors of research centers/laboratories*
12:00 – 12:50	IOSUD: Întâlnire online cu **membrii Consiliului Studiilor Universitare de Doctorat** al IOSUD în cadrul cărora funcționează domeniile evaluate and director of doctoral schools *Online meeting with Doctoral University Studies Council (CSUD)* **Link întâlnire ZOOM (UB) /** *Meeting link ZOOM platform (by UB)* : **LINK**	**Comisia de evaluare pentru IOSUD** *IOSUD evaluation panel* -membrii CSUD *CSUD's members & directors of doctoral schools*
12:00 – 12:50	Întâlnire online cu **directorii/responsabilii centrelor/laboratoarelor de cercetare** aferente domeniului de studii universitare de doctorat *Online meeting with the Directors/ persons in charge of the research centers/laboratories within the doctoral study domain* **Link întâlnire ZOOM (UB) /** *Meeting link ZOOM platform (by UB):* **Chimie /** *Chemistry* **LINK**	**Comisia de evaluare domeniu de doctorat CHIMIE** *CHEMISTRY – Doctoral domin evaluation panel*
13:00 – 13:50	<u>Domeniu doctorat_1</u>: Întâlnire online cu membrii Consiliului școlii doctorale (CSD) în cadrul cărora funcționează domeniul evaluat *<u>Doctoral domain_1:</u> Online meeting with Doctoral Schools Council (CSD members)* **Link întâlnire ZOOM (UB) /** *Meeting link ZOOM platform (by UB)* : **Matematică /** *Mathematics* **LINK** **Geologie /** *Geology* **LINK**	**Comisia de evaluare domeniu** *Domain evaluation panel* - membrii comisiei de experți evaluatori domeniu *members of domain evaluation panel* -membrii CSD / *CSD's members*

	Informatică / *Informatics* **LINK** **Chimie /** *Chemistry* **LINK** **Fizică** / *Physics* **LINK** **Geografie** / *Geography* **LINK**	**Ştiinţa mediului** / *Environmental Science* **LINK** **Studii culturale /** *Cultural Studies* **LINK** **Psihologie** / *Psychology* **LINK** **Teologie** / *Theology* **LINK**	

14:00-
14:50
	<u>Domeniu doctorat_2</u>: Întâlnire online cu membrii Consiliului școlii doctorale (CSD) în cadrul cărora funcționează domeniul evaluat
	<u>Doctoral domain_2:</u> Online meeting with Doctoral Schools Council (CSD members)
	
	Linkuri întâlniri ZOOM (UB) / *Meeting links ZOOM platform (by UB):*
	Sociologie / *Sociology* **LINK**
	Ştiinţe politice / *Political Science* **LINK**
	Drept / *Law* **LINK**
	
	Ştiinţe ale educaţiei /
	Education Sciences **LINK**
	
	Filologie / *Philology* **LINK**
		Filosofie / *Philosophy* **LINK**
		     Istorie / *History* **LINK**
		
		     Ştiinţe ale comunicării /
		     Communication Sciences **LINK**
		
		     Biologie / *Biology* **LINK**
			Comisia de evaluare domeniu
			Domain evaluation panel
			
			- membrii comisiei de experți evaluatori domeniu
			members of domain evaluation panel
			
			-membrii CSD / *CSD's members*

15:00-
15:50
	<u>Domeniu doctorat_1</u>: Întâlnire online a comisiei de evaluare cu **reprezentanți ai angajatorilor** absolvenților domeniului
	<u>Doctoral domain_1:</u> Online meeting with employers of Doctoral graduates in the domain
	
	Linkuri întâlniri ZOOM (UB) / *Meeting links ZOOM platform (by UB):*
	Matematică / *Mathematics* **LINK**
	Informatică / *Informatics* **LINK**
	Chimie / *Chemistry* **LINK**
	Fizică / *Physics* **LINK**
	Geografie / *Geography* **LINK**
		Geologie / *Geology* **LINK**
		     Ştiinţa mediului / *Environmental Science* **LINK**
		     Studii culturale / *Cultural Studies* **LINK**
		     Psihologie / *Psychology* **LINK**
		     Teologie / *Theology* **LINK**
			- Comisiile de evaluare domenii de doctorat
			Doctoral domains evaluation panels
			
			- reprezentanți ai angajatorilor
			employers' representatives

16:00-16:50	Domeniu doctorat_2: Întâlnire online a comisiei de evaluare cu **reprezentanți ai angajatorilor** absolvenților domeniului *Doctoral domain_2: Online meeting with employers of Doctoral graduates in the domain* **Linkuri întâlniri ZOOM (UB) / *Meeting links ZOOM platform (by UB):*** **Sociologie /** *Sociology* **LINK** **Filosofie /** *Philosophy* **LINK** **Științe politice /** *Political Science* **LINK** **Istorie /** *History* **LINK** **Drept /** *Law* **LINK** **Științe ale comunicării /** *Communication Sciences* **LINK** **Științe ale educației /** *Education Sciences* **LINK** **Biologie /** *Biology* **LINK** **Filologie /** *Philology* **LINK**	**- Comisiile de evaluare domenii de doctorat** *Doctoral domains evaluation panels* - reprezentanți ai angajatorilor *employers' representatives*
17:00-17:50	IOSUD: Întâlnire online a comisiei de evaluare cu **reprezentanți ai angajatorilor** absolvenților *IOSUD: Online meeting with employers of doctoral graduates* **Link întâlnire ZOOM (UB) / *Meeting link ZOOM platform (by UB)* : LINK**	**- Comisia de evaluare IOSUD** *IOSUD evaluation panel* - reprezentanți ai angajatorilor *employers' representatives*
Joi/ *Thursday*, 25.11.2021		
09:00-18:00	Continuarea activităților de evaluare a domeniilor de studii universitare de doctorat și IOSUD, inclusiv vizita la fața locului. (Se lucrează separat.) *Continuation of the doctoral study domain and IOSUD evaluation activities, onsite visit inclusive (Independent evaluation activities[i])*	**Comisiile de evaluare pentru IOSUD și domenii de doctorat** *IOSUD&doctoral domains evaluation panels*
Vineri/ *Friday*, 26.11.2021		
09:00-11:30	Continuarea activităților de evaluare a domeniilor de studii universitare de doctorat și IOSUD, inclusiv vizita la fața locului. (Se lucrează separat.) *Continuation of the doctoral study domain and IOSUD evaluation activities, onsite visit inclusive (Independent evaluation activities[i])*	**Comisiile de evaluare pentru IOSUD și domenii de doctorat** *IOSUD&doctoral domains evaluation panels*
13:00-14:20	Întâlnire online pentru concluzii / *Online meeting for conclusions* **Link întâlnire ZOOM (*ARACIS*) / *Meeting link ZOOM platform (by ARACIS)* : LINK**	**Comisiile de evaluare pentru IOSUD și domenii de doctorat** *IOSUD&doctoral domains evaluation panels*

14:30-15:30	Întâlnire finală online în vederea prezentării principalelor constatări rezultate în urma evaluării la nivel de domenii de doctorat și IOSUD și a recomandărilor de îmbunătățire a calității *Meeting with representatives of the institution under review to discuss on the conclusions of the evaluation process and the main reccomandations* **Link întâlnire ZOOM (UB) / *Meeting link ZOOM platform (by UB)* : LINK**	**Comisiile de evaluare pentru IOSUD și domenii de doctorat** *IOSUD&doctoral domains evaluation panels* - reprezentanții universității *university's representatives*

Notă:

1. Toate intâlnire în format on-line vor fi înregistrate audio-video. *All online meetings will be recorded audio and video.*

2. În perioada de evaluare, pot fi solicitate și alte întâlniri, pentru eventuale clarificări. *During the evaluation visit, other meetings may be requested for possible clarifications.*

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

Director de misiune,   Rector,

Prof. univ. dr. Radu OPREAN   Prof. univ. dr. Marian PREDA