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ROMANIAN RESEARCH ASSESSEMENT EXERCISE (RRAE)

EVALUATOR'S GUIDE BOOK

Domain 27: Psychology

2011



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1. Introduction

ROMANIAN RESEARCH ASSESSMENT EXERCISE (RRAE) is the essential component of the „*Doctorate in Universities of Excellence – Research Assessment and Support for Scientific Publishing*” strategic project, a project financed by The Sectorial Operational Programme for the Development of Human Resources (SOPDHR) and undertaken by The Executive Agency for Higher Education, Research, Development and Innovation Funding (EAHERDIF) between 2008-2011.

The Exercise’s objective is the quantitative and qualitative evaluation, with regards to specific scientific domains and international standards, of the scientific research conducted in Romanian universities. This assessment is based on *The General Methodology* [1], which is further divided by domains in *The specific guide books of the evaluation domains* [2], developed in the project, through the considerable involvement of the national academic community and with the endorsement of an international panel of experts.

At the end of The Exercise for each of the forty two domains of scientific research identified in the project, a hierarchy of Romanian universities will result based on the obtained research performances.

RRAE results will permit formulation of legislative proposals regarding research financing to be strongly connected to the achieved performances and to the perspective of sustainable development of the universities. This perspective will stimulate the competition between universities, the participation of Romanian researchers in the international networks of research, and the increase of visibility and academic prestige in a global context. At the same time, The Exercise itself proposes to identify the universities whose potential and strategic programme can generate excellence, thus backing the realization of the *Excellency Universities in Romania* programme, a programme elaborated in the frame of the present project [3].

The Assessment Electronic Platform (Romanian acronym SISEC) is the informatics infrastructure, developed in the project. SISEC follows three main objectives:

- (i). to mediate the introduction by universities of the information on which the evaluation is based (*Data gathering module*);
- (ii). to provide informatics support for the qualitative evaluation in a *peer-review* system (*Evaluation module*);
- (iii). to generate reports on the scientific research conducted in the universities in formats requested by various stakeholders (*Reporting module*).



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The platform will allow the periodical monitoring of research results and the identification of excellence groups whose financial support will contribute to the increase of visibility of Romanian scientific research. As the qualitative evaluation will also be conducted by foreign experts, all the descriptive fields from SISEC will be filled out in English by researchers and domain coordinators from the universities.

The structure of the actual *Evaluator's Guide Book* is the following:

- in **Chapter 2** (*Evaluation Methodology*) the evaluated domains, the four criteria and the accompanying descriptors are shown, next to the duties of participants in the evaluation process;
- in **Chapter 3** (*Electronic Evaluation File*) the structure of *The electronic file* generated by SISEC on the basis of the information introduced by the universities and subjected to both evaluations: quantitative (performed automatically) and qualitative (through *peer-review* activity of the Romanian and foreign evaluation experts), is shown;
- in **Chapter 4** (*Evaluator's work Guidelines*) the steps followed by the evaluator to access SISEC and to perform the qualitative evaluation of the files which are automatically allocated by the electronic platform, are shown in detail;
- in **Chapter 5** (*Panel Coordinator's Work Guidelines*) the responsibilities and the stages followed by the panel coordinator in RRAE are shown.

Further, after the **Bibliography** section, the document contains a detailing of the significance of quality levels specific to each domain, a particularization undertaken by the Evaluation panels for each domain in the process of elaborating the *Evaluation Methodology* (**Annex 1**), the scheduling of meetings of the *Evaluation panels* (**Annex 2**), *Templates for Reports generated during RRAE* (**Annex 3**) and, finally, explanations of the terms used in RRAE – *Glossary of terms* (**Annex 4**).



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2. The Evaluation Methodology

The elaboration of evaluation methodology of scientific research in Romanian universities, on the basis of which the current *Research Assessment Exercise* takes place, was conducted between December 2008 and April 2010 and is presented in detail on the Web page of the project [1 and 2]. The methodology is based on a *peer-review* evaluation process, with national and foreign evaluators, being an evaluation by research domains. The taxonomy of the specialty domains is intended to provide a referential framework to The Exercise, highlighting affinities and connections between domains, structured in *Domains groups* and which must be treated consistently by the evaluators. The 42 domains used in RRAE are listed below:

Group I - Natural Sciences

1. Mathematics
2. Informatics
3. Physics
4. Chemistry
5. Geology and geography

Group II- Engineering Sciences

6. Civil engineering and installations
7. Mechanical engineering and mechatronics
8. Aerospaiale engineering
9. Transportation
10. Chemical engineering
11. Materials science
12. Oil, gas and mines
13. Industrial engineering
14. Electrical engineering
15. Energetics
16. Electronics and telecommunications
17. System engineering
18. Computers and information technology
19. Biotechnologies, food security and engineering
20. Environmental sciences

Group III - Social and Economic Sciences

21. Law and administrative sciences
22. Economic sciences
23. Military sciences, security and information
24. Political sciences and international relations
25. Communication and media
26. Sociology, anthropology and social assistance
27. Psychology
28. Education science
29. Sports

Group IV - Human Sciences

30. Philosophy
31. History
32. Theology and religious studies
33. Philology

Group V - Arts and Architecture

34. Cinematography and performing arts
35. Music
36. Visual arts
37. Architecture and urbanism

Group VI – Life Sciences

38. Biology
39. Agriculture and forestry
40. Veterinary medicine and zootechny
41. Medicine
42. Pharmacology

In the current Romanian Research Assessment Exercise the following four criteria are used [1]:

- **Criterion I: The results obtained in the activity of scientific research;**
- **Criterion II: The environment of scientific research;**
- **Criterion III: The prestige in the academic community;**
- **Criterion IV: Financial resources brought for the scientific research.**

Each of these four criteria has a specific weight and a set of descriptors, as follows.

CRITERIA	DESCRIPTORS
<p>I. The results obtained in the activity of scientific research <i>(Scientific Output)</i></p> <p>(60 – 70 %) Maximum 3 indicators</p>	<ul style="list-style-type: none"> ▪ Articles: <ul style="list-style-type: none"> ▪ Publications rated Web of Science; ▪ Published in proceedings of scientific events; ▪ Magazines from international data base. ▪ Scientific books of author and chapter books ▪ Translations ▪ Patents ▪ Copyrights Protected Achievements ▪ Socio-Economic Products (products and/or innovative services with an socioeconomic impact which can be demonstrated)
<p>II. The environment of scientific research <i>(Research Environment)</i></p> <p>(10 – 30 %) Maximum 4 indicators</p>	<ul style="list-style-type: none"> ▪ PhD Advisors ▪ Organization of Scientific Events ▪ Youth Research Program (Mechanisms to attract young researchers) ▪ Research infrastructure ▪ Access to scientific literature ▪ Edited volumes ▪ Edited translations
<p>III. The prestige in the academic community <i>(Academic Recognition)</i></p> <p>(5 – 15 %) Maximum 3 indicators</p>	<ul style="list-style-type: none"> ▪ Invited Professor ▪ Invited Lectures ▪ Citations and reviews of author's creations ▪ Member of Romanian Academy, of branch academies and foreign academies
<p>IV. Financial resources brought for the scientific research <i>(Research Contracts)</i></p> <p>(5 – 10 %) 1 indicator</p>	<ul style="list-style-type: none"> ▪ Funds drawn for research from national and international contracts.

The quantifying of descriptors is done by a set of formulas elaborated by the project team together with the 42 domain coordinators, on the basis of the national and international experience in research

evaluation. The mathematical relations which lead to the numerical values associated to each o evaluation criterion are specified in *The detailed presentation of the evaluation formulas which are going to be used in Romanian Research Assessment Exercise* [4]. The indicators which resulted so forth contain two distinct levels of evaluation: a quantitative and a qualitative one. The quantitative evaluation is automatically performed by the informatics platform, on the basis of the registered information, while the qualitative evaluation is conducted by the evaluators, on the basis of the documents subjected to analysis.

➡ **The evaluation procedure** from a certain research domain follows, successively, the next stages:

1. The qualitative and quantitative evaluation of files by each criterion is done, every file receiving (based on evaluation formulas) four numerical values, each for every criterion.
2. The files are ranked by each criterion, thus resulting in four hierarchies, each for every evaluation criterion.
3. The files from the top of the four hierarchies will receive a maximum number of points (according to [1]). These values are indicated in the table below.
4. The other files receive a number of points which is proportional to the numerical value received for that criterion.
5. The total number of points of university file (for the evaluated domain) is calculated by adding the number of points received for the four criteria.
6. Finally, the ranking of files by a research domain is done depending on the total number of points received.

	Natural Sciences	Engineering Sciences	Social and Economic Sciences	Humanist Sciences	Arts and Architecture	Life Sciences
Criterion I	70 points	65 points	60 points	60 points	60 points	60 points
Criterion II	10 points	15 points	15 points	15 points	30 points	20 points
Criterion III	10 points	10 points	15 points	15 points	5 points	10 points
Criterion IV	10 points	10 points	10 points	10 points	5 points	10 points

The maximum points corresponding to the four criteria for each group of domains established in The General Methodology of Evaluation [1].

➡ **By researchers, according to this guide, we understand the didactic staff and the researchers employed by the university as of 31-st of December 2010.**

Each researcher will have an individual account in **Assessment Electronic Platform** (Romanian acronym *SISEC*), through which she/he will introduce all the information subject to evaluation.

Attending PhD students who don't have an employment contract with the university will have an individual account in **Assessment Electronic Platform** (Romanian acronym *SISEC*) by which they will introduce all the information subject to evaluation.

Criterion I, II and III imply both a quantitative evaluation (automatically achieved by *SISEC*) and a qualitative one, performed by the evaluators through the framing of the elements subjected to the qualitative evaluation by quality levels. Criterion IV contains just the quantitative component. The information necessary for the evaluation by the criteria I and III are obtained from the individual data introduced in *SISEC* by the researchers, while the information needed for the evaluation of the Criterion IV are introduced by the domain coordinator from the university. At the criterion II the information required by the „PhD Advisors” descriptor are introduced by the researchers (if they have the position of a doctorate supervisor), the rest of the information being introduced by the domain coordinator from the university.

☞ RRAE calls for two categories of actors involved in the process:

- **the universities**, represented by *rectors, domain coordinators, researchers and attending PhD students* (they don't have an employment contract with the university);
- **the national and foreign evaluators.**

At the **university** level, **the rector** selects from the list of the forty two domains subjected to evaluation the domains which are covered in the university. The rector will also establish the domain coordinators and the list of researchers and post-graduates for each research domain; he/she will introduce and will validate through the platform the data required at the university level and in the end he/she will validate all the elements which will be entered into the evaluation process. On the basis of the lists with the identification data of the researchers and the PhD students and of the list with the identification data of the domain coordinators, established by the rectors, the accounts for the domain coordinators, researchers and post-graduates will be generated.

The domain coordinator is the person appointed by the rector as a responsible for the research evaluation for a certain domain covered by the respective university. He/She introduces the information for criteria II (*Research Environment*) and IV (*Research Contracts*), debugs the error messages (*SISEC*) and validates the data introduced by the researchers in the respective domain.

The researchers and the PhD students will register in *SISEC* the scientific production (Criterion I) and each researcher who has a non-null scientific production on a certain descriptor has to introduce in *SISEC*, for the qualitative evaluation, 10% (but not less than one element) from the scientific production accompanying that descriptor (for example, articles, books and so on). The researchers will register in *SISEC*

the accompanying information to the prestige in the academic community (Criterion III), also. The researchers who have the right to supervise doctorates will introduce in Criterion II (*Research Environment*) the information afferent to „PhD Advisors” descriptor; the rest of the information specific to The Criterion II shall be introduced by the domain coordinator.

The evaluators have access, through SISEC, to the integral electronic files allocated for the evaluation, thus having the possibility of a complete picture of the achieved performances in scientific research for the universities, by the evaluated domains.

The national and foreign evaluators will analyze from the qualitative point of view a part of the information registered by the universities with the electronic platform as follows:

- For Criterion I, the qualitative evaluation is done only for 10% of the scientific production. For every element subjected to the qualitative analysis in the frame of Criterion I (articles, books etc.), the evaluators will choose explicitly one of the four quality levels described below.
- For criteria II and III all the information introduced in SISEC by the universities will be qualitatively evaluated. The evaluators will indicate just the number of elements (for example, scientific events, edited volumes and so on) accompanying each quality level.

According to General methodology of evaluation [1], in the frame of RRAE, the evaluators will choose for each element subjected to qualitative evaluation one of the following four quality levels:

- **top international;**
- **international;**
- **national;**
- **local.**

The detailed description of these levels of quality is specific to each evaluation domain and it is presented in **Annex 1** of the current Guide Book.

3. The Electronic Evaluation File

The *electronic evaluation file* (later called *Evaluation file* or just *File*) is associated to a domain of science from a certain university and it contains **the entire information** provided by the University for (quantitative and qualitative) evaluation in RRAE, by the respective domain.

Beside the elements subjected to the evaluation, *the evaluation file* also contains the general information specific to the university and the evaluated domain.

The electronic file is organized in three sections:

Section I: General data which contain the following information:

I.1 General data about the university introduced by Rector;

I.2 General data about the evaluated domain introduced by the domain coordinator (number of researchers, number of PhD students, specific information domain available for the domain coordinator);

I.3 Information about the number of elements uploaded to SISEC for each Criterion and Descriptor.

Section II: Data for qualitative evaluation, where will be presented to the evaluator the elements subjected to the evaluation, *in an interactive way*, on each descriptor as follows:

- at **Criterion I** for each descriptor 10% of the scientific production will be posted (the selection of the elements being done by the researchers);
- at **Criteria II and III** all data will be posted.

Every element subjected to the qualitative evaluation, together with the afferent information (text domains, *.pdf files, etc.), will be accompanied by a *drop-down list*, through which the evaluator will select one of the quality levels (top international, international, national or local) and by a text area, where the evaluator will provide the arguments for his decision.

Section III: Integral data, which allows the evaluator *to visualize* the entire information referring to the evaluated domain, introduced for the domain by the researchers, domain coordinators and university, for **all four evaluation criteria**.

The electronic platform (SISEC) ensures a functionality by which the electronic file can be saved in a *.pdf file format), a file which can be stored on a removable storage (e.g. DVD) or can be printed. This Electronic file will be validated by the domain coordinator from the university and in the end by the Rector before the assessment process begins.

4. Evaluator's work guidelines

The evaluators are prestigious researchers from Romania and abroad, selected after a large consultation of the academic community. They will analyze and assign one of the four quality levels defined in *General methodology of evaluation* [1], the information registered by the universities in SISEC and destined for the qualitative evaluation. These represent 10% of the total of information from Criterion I. They will also evaluate the integral information uploaded at Criteria II and III.

In RRAE, the evaluators will perform their activity, successively following these stages:

Stage I: *online*

- a. The evaluator accesses SISEC using the identification data (*username, password*) received by *e-mail* from the electronic platform administrator;
- b. See *The Evaluator Guide Book* specific to the domain.
This guide is available in English, in his/her SISEC work space. When he/she has doubts/questions regarding the unfolding of the evaluation procedure, the evaluator can consult the Panel Coordinator;
- c. In his/her work space, he/she identifies the electronic files which were automatically allocated to him/her by the electronic system for the qualitative evaluation. For each file, if conflicts of interests are not detected, he/she will accept the file for the evaluation, selecting the proper option from SISEC. If not, he/she refuses the file evaluation and he/she will receive another file for the evaluation, from the Evaluation panel coordinator.
- d. The proper qualitative evaluation of each file:
 - i. The evaluator will examine the entire file (the second section of *The evaluation electronic file*) in order to make an overview of the evaluated domain from the university;
 - ii. As presented in Chapter 2 (of this guide book), *the qualitative evaluation will be done only for 10% of the scientific production* (Criterion I) and *integrally* for Criteria II and III. The elements subjected to the qualitative evaluation are included in the first section of *The evaluation electronic file*, file available to the evaluator. For each of these elements, SISEC will make available to the evaluator all the information introduced by the universities for the qualitative evaluation (e.g. files in *.pdf format containing the scientific article, book, chapter, etc.);
 - iii. For each element subjected to the qualitative evaluation, based on the existing information in SISEC, the detailed description of the quality levels presented in **Annex 1** and the

personal scientific expertise, the evaluator must choose one of the four quality levels and provide (in the respective domain from SISEC) arguments for the choice he/she made.

- e. At the end of the qualitative assessment process of a file, the evaluator will fill in and will sign *The evaluation report* (see **Annex 3** of this guide book) for that file. This report will contain statistical data resulted after the evaluation (data automatically generated by SISEC), together with the general notes/assessments of the evaluator for that file. The report will be electronically filled in, on SISEC, immediately after the *online* evaluation, will be subsequently printed, signed by the evaluator and sent to the project management team.

Stage II: in panel

- a. For the Panel meeting , the evaluator will check the other evaluators' assessment results (without knowing their identities) and the arguments already presented by them, results accessible in SISEC only after the *online* evaluation stage is completed, when the evaluators can no longer modify the assessments.
- b. The evaluator is invited to attend the meeting (working session) of The Evaluation Panel, a meeting mediated by the Evaluation Panel Coordinator. The schedule of the Panel meetings is shown in **Annex 2** of this guide book;
- c. The evaluator will be able to participate in the on-site visit at the evaluated universities, a visit which will be correlated with the panel meeting, elaborating *A report on the on-site visit for the domain*, according to the model shown in **Annex 3** of this guide book. The scheduling and participation in the on-site visits will be established by the project management team;
- d. The evaluator will participate to the elaboration and he/she will sign *The report of the meeting in the Panel*, according to the model shown in **Annex 3** of this guide book;
- e. The evaluator will sign, alongside the other members of the Panel and the Panel coordinator, *The final report of the ranking of files by domains*, according to the model shown in **Annex 3** of this guide book.

5. Panel Coordinator's work guidelines

As established in *General Methodology* [1], the Panel Coordinator doesn't evaluate the universities' files, his/her role being that of coordinating the activity of The evaluation panel, of mediating the discussions from the Panel in order to reach a consensus in establishing the quality levels subjected to the qualitative evaluation and to conduct the reports generated in the assessment process, reports whose model is shown in **Annex 3** of this guide book. His/her activity will follow the next steps:

Stage I: *online*

- a. He/she logs on to SISEC, using the *username* and the *password* received by *e-mail*, from the platform's administrator;
- b. Consults *The Evaluator Guide Book* specific to the domain. This guide is available in English, in his/her work space at SISEC;
- c. In his/her work space, he/she identifies the files uploaded by the universities and the complete list of the evaluators from the Panel he/she coordinates;
- d. He/she identifies the way SISEC automatically allocated the files to the evaluators and points out to the management team of the project the eventual incompatibilities;
- e. He/she receives (by SISEC) from the evaluators the agreement/refuse to assess the allocated file. In a case of a refused file, he/she allocates that file to another evaluator, pointing out this allocation to the project management team;
- f. During the *online* qualitative evaluation, the panel coordinator solves the eventual doubts/questions received from the evaluators. If it's necessary, he/she contacts the project management team;
- g. He/she points out to the project management team any dysfunctionality which can show up during the *online* qualitative assessment.

Stage II: On-site Visits and Panel Meeting

- a. He/she prepares the field visits and the panel meeting, assuring the fact that all the evaluators had accessed/visualized the results of the *online* qualitative evaluation done by the other members of The Panel;
- b. He/she mediates the discussions in The Panel in order to reach a consensus on the allocation of the quality levels for all the elements subjected to the qualitative evaluation;

- c. After the discussions in the panel meeting finalize, he/she assures the filling in and the signing by the participants of *The Report of the meeting in Panel*;
- d. Based on *The Report of the panel meeting*, he/she introduces in SISEC (with the technical support of the Panel assistant) the final values of the quality levels for the elements subjected to the qualitative evaluation.

Stage III: Finalizing the evaluation process and the classification of the universities on the domain

- a. Using the final results of the evaluation (quantitative and qualitative) provided by SISEC, he/she fills in and signs together with the other members of The Evaluation Panel *The Final report of the raking of files by domain*(according to the model from **Annex 3** of this guide book);
- b. He/ she gives to the project management team this *Final report* on the evaluation in RRAE;
- c. For the file with the highest score, he/she presents a comparison concerning the elements from **Criterion I** with the top universities in Europe, conducting *A Report of benchmarking* (according to the model from **Annex 3**).



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Annex 1. Particularization of the quality levels meaning according to the specific methodology of the domain Psychology

The descriptors and the quality factors specific to the three qualitatively evaluated criteria, for the Psychology panel are presented below.

Criterion I: The results obtained in the activity of scientific research

In the frame of this criterion the analysis of the scientific production of each researcher reported by the university in Psychology domain is taken into consideration. The evaluation is both qualitatively and quantitative and it is realized on the basis of the individual information of the researchers.

The descriptors are:

- *Scientific articles*

Description: only the ISI, ERIH A category and that which are SCOPUS, PSYCHINFO, PUBMED/MEDLINE rated, published in the last five years will be taken into consideration, which have the evaluated university as the institutional affiliation.

Quality factor:

Top international level

- Scientific production which imposes present directions of research in a domain
- Vanguard scientific production
- Scientific production which leads to a new way of thinking or to the apparition of new techniques
- Scientific production which has a major influence on the domain
- The development of new paradigms or new concepts in research

International level

- Scientific production which brings contributions of an international level in that domain
- Contributions to knowledge, ideas and techniques which can have a long time impact, but don't develop new paradigms and don't lead to new fundamental concepts

National level

- Scientific production which brings useful information in that domain, but without having a long time impact
- Contributions to knowledge, using techniques and approaches currently used or those which are concordant with the existing ideas and paradigms

Local level

- Scientific production of routine, with a negligible impact on the domain

- *Books and books chapters*

Description: the scientific books of author published at foreign publishing houses, the chapters in scientific books published at foreign publishing houses, the scientific books of author published at Romanian publishing houses and the chapters in scientific books published at Romanian publishing houses will be taken into consideration. Only those books and books chapters which have the university evaluated as the institutional affiliation are taken into consideration. The books published at Romanian publishing houses are considered just those volumes which are registered at The National Library. Books with a didactic character are excluded from the evaluation.

Quality factor:

Top international level

- Scientific production which imposes present directions of research in a domain
- Vanguard scientific production
- Scientific production which leads to a new way of thinking or to the apparition of new techniques
- Scientific production which has a major influence on the domain
- The development of new paradigms or new concepts in research

International level

- Scientific production which brings contributions of an international level in that domain
- Contributions to knowledge, ideas and techniques which can have a long time impact, but don't develop new paradigms and don't lead to new fundamental concepts

National level

- Scientific production which brings useful information in that domain, but without having a long time impact
- Contributions to knowledge, using techniques and approaches currently used or those which are concordant with the existing ideas and paradigms

Local level

- Scientific production of routine, with a negligible impact on the domain

- *Copyrights Protected Achievements*

Description: the products/the achievements recognized by The National Authority in The Domain (e.g. The Psychologists College from Romania for Psychology), ORDA and/or OSIM(e.g. softs, psychological tests,

methodologies etc.), with the total description assumed by signature, by the university's rector will be taken into consideration.

Quality factor:

Top international level

- Innovative products/services which impose present directions of research and/or technology in a domain
- Products/services which reflect vanguard innovations
- Innovative products/services which leads to a new way of thinking or to the apparition of new techniques
- Innovative products/services which have a major influence on the domain

International level

- Innovative products/services which bring contributions of an international level in that domain
- Innovative products/services which can have a long time impact, but don't develop new paradigms and don't lead to new fundamental concepts

National level

- Innovative products/services which bring useful information in that domain, but without having a long time impact
- Products/services using techniques and approaches currently used or those which are concordant with the existing ideas, technologies and paradigms

Local level

- Products/services of routine, with a negligible impact on the domain

Criterion II: The background of scientific research

In the frame of this criterion the dynamics of the background of the scientific research in Psychology domain is analyzed, on the basis of the individual information of the researchers and of the information which was directly received from the university.

The descriptors are:

- *PhD Advisors*

Description: The quality of the PhD Advisors is determined by the evaluators on the basis of the publications resulted from the doctoral theses. The quality recognition is also done taking into consideration the involvement of the post-graduates in researches developed in the frame of some national and international projects. It will be observed whether young Ph.D. students, after getting their

Ph.D., obtained postdoctoral stages in prestigious institutions or ones which are financed by prestigious organizations (Humboldt Foundation, Marie Curie scholarships, important foreign universities etc.). Also, the professional route of the young Ph.D. students after they received their Ph.D. will be observed.

Quality factor:

Top international level

- The PhD advisor is a member in complex teams of international research and/or of those with an international financing, which approach important topics in the domain, where are also included their own post-graduates
- After they got their Ph.D., the researchers got research and/or didactic positions at prestigious international universities/organizations (e.g. Top-500 in Shanghai or Times classification; international agencies etc.)
- The publications resulted from the doctorate topics bring remarkable innovations at an international level, which are expressed by citations and publications in magazines and/or top international volumes in the domain
- The doctoral theses are published in international circulation languages

International level

- The PhD advisor is a member in international teams of research and/or of those with an international financing, where are also included their own post-graduates
- After they got their Ph.D., the researchers got research and/or didactic positions at important universities/organizations from abroad
- The publications resulted from the doctorate topics bring interesting contributions at an international level, which are expressed by citations and publications in magazines and/or international volumes
- The doctoral theses are published in international circulation languages

National level

- The PhD advisor is a member in national teams of research and/or of those with a national financing, where are also included their own post-graduates
- After they got their Ph.D., the researchers got research and/or didactic positions at prestigious universities/organizations from the country
- The publications resulted from the doctorate topics bring national interest innovations, which are expressed by citations and publications in national magazines and/or volumes

Local level

- The PhD advisor isn't involved and doesn't coordinate research teams financed from grants, where to be also included their own post-graduates

- After they got their Ph.D., the researchers got research and/or didactic positions at country local universities/organizations
- The publications resulted from the doctorate topics don't bring innovations, being ignored in the prestigious national literature. The Doctoral School has a minor impact at a national level.

- *Organization of Scientific Events*

Description: the quality of the scientific event expressed by the weight of the international participation, the scientific scope of the participants and the publications which takes over the presented papers will be appreciated.

Quality factor: Is established depending on the thematic, the scientific value of the papers, the number and the participants 'quality, the resulted publications, the echo of the conferences in the specialty magazines and in the daily press from the country and abroad.

Top international level

- The scientific event develops under the care of and/or is organized by an European and/or international professional organization, often being of „congress” and/or „conference” type
- The scientific event is ISI rated and/or the papers are published in top magazines in the domain or in volumes published in prestigious international publishing houses
- The topic (the thematic) of the scientific event is one of top at the international level, refinding itself in the politics of the professional associations in the domain and in the thematic of financing of the international agencies and/or of the international programs (NSF, ESF, ERC, FP7 etc.)

International level

- The scientific event develops under the care of and/or is organized by an European and/or international professional organization, often being of „conference”, „symposium” and/or „workshop” type
- The scientific event is ISI rated and/or the papers are published in international magazines or volumes
- The topic (the thematic) of the conference is one of interest at the international level, refinding itself in the politics of the professional associations in the domain

National level

- The scientific event develops under the care of and/or is organized by a national professional organization
- Its papers are published in national magazines or volumes

- The topic (the thematic) of the conference is one of interest at the national level, refinding itself in the politics of the professional associations in the domain and/or in the national politics concerning the research-the development-the innovation.

Local level

- The scientific event develops under the care of and/or is organized by a local professional organization
- Its papers are published in local magazines or volumes
- The topic (the thematic) of the conference isn't one of interest of national level

- *Mechanisms to attract young researchers*

Description: the effort of the universities to support programs for the young researchers (until 35 years old) will be evaluated.

Quality factor:

Top international level

- There are young researchers who come from prestigious universities/organizations from abroad (e.g. Top-500 in Shanghai or Times classification)
- The young Ph.D. students are included in international research teams, approaching topics of forefront in the domain
- There is international financing supported by the major agencies of research financing and/or by other significant organizations at an international level (including contracts with international companies)

International level

- There are young researchers who come from prestigious universities from abroad
- The young Ph.D. students are included in international research teams
- There is international financing supported by the major agencies of research financing and/or by other international organizations (including contracts with international companies)

National level

- There are young researchers who come from other prestigious universities from the country
- The young Ph.D. students are included in national research teams
- There is financing supported by the major agencies of research financing and/or by other national organizations (including national companies)

Local level

- There are young researchers who come from the analyzed university or from nearby universities
- The young Ph.D. students aren't included in national research teams
- There isn't financing won by competition and/or contracts dedicated to the young researchers

- *Research infrastructure*

Description: the investments of the universities in equipment and high technologies for an advanced research will be appreciated.

Quality factor:

Top international level

- The investments in top equipment and technologies for an advanced research assure a competitive advantage at an international level
- There are research centers nationally accredited or accredited by the university integrated in international networks of profile, with solid international collaborations

International level

- The investments in top equipment and technologies for an advanced research are of an international level
- There are research centers nationally accredited or accredited by the university with international collaborations

National level

- The investments in top equipment and technologies for an advanced research are of a national level
- There are research centers with solid national collaborations and/or those which are NURC accredited

Local level

- The investments in top equipment and technologies for an advanced research are of a local level
- The research centers have an impact and/or are just locally accredited

Criterion III: The prestige in the academic community

In the frame of this criterion the prestige by the academic community of the researchers of a university who are active in the Psychology domain is analyzed. The analysis is done on the basis of the individual information from the researchers.

The descriptors are:

- Invited Lectures (Papers)

Description: The prestigious international conferences are those which develop under the care of and/or are organized by an European and/or international professional organization, often being of „congress”, „conference” and/or „symposium” type. The documenting is achieved by the presentation of the nominal invitation and of the conference program (or a copy of it) where to result the title of the invited paper, the participants and the organizing board.

- *Visiting professor*

Description: By „visiting professor at prestigious universities” we understand didactic staff and/or research staff invited to keep lectures and/or to develop research activities of collaboration at universities and/or research institutes from Top-500 (e.g. Shanghai or Times classification etc.). The documenting is achieved by the presentation of the nominal invitation where to result the scientific activities developed at the university/institute where he/she was invited.

- *Citations*

Description: By citations we understand quotation of the scientific production in ISI system and/or other well-documented (ascertainable) national and international systems.

Quality factor:

Top international level

- “Highly cited researcher” or international citations over the average of the citations in the domain
- School creator, influencing the international research directions by the development of new paradigms or research concepts presented in top international publications, prestigious conferences – as a „keynote speaker” – and/or to top universities/ institutions (e.g. from Top-500 in Shanghai or Times classification etc.)

International level

- International citations, at least at the average level in the domain

- Personality who brings contributions of international level in that domain, presented in international publications, prestigious conferences and/or to universities/ institutions from abroad
- Personality with contributions to knowledge, ideas and techniques which can have a long time impact, but don't develop new paradigms and don't lead to new fundamental concepts

National level

- Citations at a national level
- Author who brings useful information in that domain, but without having a long time impact, especially presented in national publications, national conferences and/or at universities/institutions from the country
- Author with contributions to knowledge, using techniques and approaches currently used or which are concordant with the existing ideas and paradigms

Local level

- Citations at a local level
- Author with a routine scientific production, with a negligible impact on the domain

Criterion IV: Financial resources brought for the scientific research

The evaluation with regards to criterion IV is totally quantitative, being achieved automatically by the informatics platform of the assessment, without the involvement of the evaluation experts. This evaluation is done on the basis of the research contracts reported by an university on a certain domain, on the evaluated period.

Annex 2. Panel Meetings Schedule

Period	Panels					
22 th – 24 th of August 2011	P4 - Chemistry	P7 - Mechanical engineering and mechatronics	P27 - Psychology	P34 – Cinematography and performing arts		
24 th - 26 th of August 2011	P32 - Theology and religious studies	P8 - Aerospațiale engineering	P21 - Law and administrative sciences	P2 - Informatics		
29 th - 31 st of August 2011	P1 - Mathematics	P37 - Architecture and urbanism	P30 - Philosophy	P26 - Sociology, anthropology and social assistance	P14 - Electrical engineering	P29 - Sports
30 th August - 1 st September 2011	P28 - Education science	P31 - History	P35 - Music			
31 st - 2 nd September 2011	P12 - Oil, gas and mines	P9 - Transportation	P11 - Materials science	P18 - Computers and information technology	P33 - Philology	
5 th - 7 th of September 2011	P42 - Pharmacology	P5 - Geology and geography	P24 - Political sciences and international relations	P13 - Industrial engineering	P20 - Environmental sciences	
6 th - 8 th of September 2011	P10 - Chemical engineering	P17 - System engineering	P16 - Electronics and telecommunications	P23 - Military sciences, security and information	P15- Energetics	
7 th - 9 th of September 2011	P40 - Veterinary medicine and zootechny	P41 - Medicine	P36 - Visual arts			
12 th - 14 th of September 2011	P38 – Biology	P3 - Physics	P6 - Civil engineering and installations	P19 - Biotechnologies, food security and engineering	P39 - Agriculture and forestry	P25 - Communication and media
15 th - 17 th of September 2011	P22 - Economic sciences					

Annex 3. Templates for Reports generated during RRAE

1. The online evaluation form.

ROMANIAN RESEARCH ASSESSEMENT EXERCISE (RRAE)

Evaluation form

Identification data:

Evaluated university

Evaluated domain

Criterion I – The results obtained in the activity of scientific research

Articles

Total number of articles uploaded

Number of articles selected for qualitative evaluation

(generated by SISEC)

Top international level ($I_{iv} = 1,2$):	
International level ($I_i = 1$):	
National level ($I_n = 0,9$):	
Local level ($I_l = 0,7$):	

F_c, g, a = (are generated automatically by the platform)

Books and chapters

Total number of books and chapters uploaded

Number of books and chapters selected for qualitative evaluation

(are generated automatically by the platform)

Top international level ($l_{iv} = 1,2$):	
International level ($l_i = 1$):	
National level ($l_n = 0,9$):	
Local level ($l_l = 0,7$):	

F_c, g, c = (are automatically generated by the platform)

Patents

Total number of patents uploaded

Number of patents selected for qualitative evaluation

(are generated automatically by the platform)

Top international level ($l_{iv} = 1,2$):	
International level ($l_i = 1$):	
National level ($l_n = 0,9$):	
Local level ($l_l = 0,7$):	

F_c, g, b = (are generated automatically by the platform)

Translations

Total number of translations uploaded

Number of translations selected for qualitative evaluation

(are generated automatically by the platform)

Top international level ($l_{iv} = 1,2$):	
International level ($l_i = 1$):	
National level ($l_n = 0,9$):	
Local level ($l_l = 0,7$):	

F_c, g, tr = (are generated automatically by the platform)

Socio-Economic Products

Total number of products uploaded

Number of products selected for qualitative evaluation

(are generated automatically by the platform)

Top international level ($I_{iv} = 1,2$):	
International level ($I_i = 1$):	
National level ($I_n = 0,9$):	
Local level ($I_l = 0,7$):	

$F_c, g, p =$ (are generated automatically by the platform)

Copyrights Protected Achievements

Total number of achievements uploaded
Number of achievements selected for qualitative evaluation

(are generated automatically by the platform)

Top international level ($I_{iv} = 1,2$):	
International level ($I_i = 1$):	
National level ($I_n = 0,9$):	
Local level ($I_l = 0,7$):	

$F_c, g, r =$ (are generated automatically by the platform)

Evaluator's general notes regarding Criterion I

Criterion II – The background of scientific research**PhD Advisors****Total number of PhD advisors***(are generated automatically by the platform)*

Top international level ($l_{iv} = 1,2$):	
International level ($l_i = 1$):	
National level ($l_n = 0,9$):	
Local level ($l_l = 0,7$):	

*F_c,g,cd = (are generated automatically by the platform)***Organization of Scientific Events****Total number of events***(are generated automatically by the platform)*

Top international level ($l_{iv} = 1,2$):	
International level ($l_i = 1$):	
National level ($l_n = 0,9$):	
Local level ($l_l = 0,7$):	

*F_c,g,ms = (are generated automatically by the platform)***Access to scientific literature****Number of subscriptions to domain specific journals****Total number of journal subscriptions in the university***(are generated automatically by the platform)*

Top international level ($l_{iv} = 1,2$):	
International level ($l_i = 1$):	
National level ($l_n = 0,9$):	
Local level ($l_l = 0,7$):	

F_c,g,al = (are generated automatically by the platform)

Youth Research Program

Number of researchers under 35 years of age

Total number of researchers

Total number of evaluated programs

(are generated automatically by the platform)

Top international level ($l_{iv} = 1,2$):	
International level ($l_i = 1$):	
National level ($l_n = 0,9$):	
Local level ($l_l = 0,7$):	

$F_c, g, p, t_c =$ (are generated automatically by the platform)

Research infrastructure

Total sum of money invested in the domain specific

infrastructure

Total number of evaluated infrastructure elements

(are generated automatically by the platform)

$F_c, g, i =$ are introduced in SISEC by the evaluator as a single value for the entire infrastructure related to the evaluated domain

Edited volumes

Total number of edited volumes

(are generated automatically by the platform)

Top international level ($l_{iv} = 1,2$):	
International level ($l_i = 1$):	
National level ($l_n = 0,9$):	
Local level ($l_l = 0,7$):	

$F_c, g, v =$ (are generated automatically by the platform)

Edited translations

Total number of edited translations and volumes

(are automatically generated by the platform)

Top international level ($l_{iv} = 1,2$):	
International level ($l_i = 1$):	
National level ($l_n = 0,9$):	
Local level ($l_l = 0,7$):	

F_c, g, tv = (are automatically generated by the platform)

Evaluator's general notes regarding Criterion II



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Criterion III – The prestige in the academic community

Total number of researchers with positive scientific results

Total number of researchers in the domain

Number of evaluated elements

(are generated automatically by the platform)

Top international level ($I_{iv} = 1,2$):	
International level ($I_i = 1$):	
National level ($I_n = 0,9$):	
Local level ($I_l = 0,7$):	

F_c, g, r_c = (are generated automatically by the platform)

Evaluator's general notes regarding Criterion III



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Criterion IV – Research Contracts

Domain specific income attracted from contracts at a national level

Domain specific income attracted from contracts at an international level

Total numbers of researchers in the specific domain
(are generated automatically by the platform)

Evaluator's general notes regarding Criterion IV

Date

Expert's first and last name

Expert's signature



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2. Report for visits on Universities.

ROMANIAN RESEARCH ASSESSEMENT EXERCISE (RRAE)

On-site evaluation form

General data:

Evaluated University

Evaluated domain

Criterion II – The background of scientific research

Research infrastructure (the list with the infrastructure elements uploaded to SISEC and a column with the evaluator's remarks)

Infrastructure list uploaded to SISEC

(automatically generated by the

platform)

Total sum invested in infrastructure on domain

F_{c,g,i} = fill out by the evaluator as an unique value for the entire evaluated domain infrastructure

Evaluator's general notes

Organization of Scientific Events

The list of scientific events uploaded to the platform (a column with the quality level for each meeting must be added; from on-line and field evaluation)

(automatically generated by the platform)



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Evaluator's general notes

Access to scientific literature

The list of elements uplodod to the platform (a column with the quality level for each element must be added; from on-line and field evaluation)
(automatically generated by the platform)

Evaluator's general notes

Youth Research Program

The list of elements uplodod to the platform (a column with the quality level for each element must be added; from on-line and field evaluation)
(automatically generated by the platform)

Evaluator's general notes



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Criterion IV – Research Contracts (the list of the elements uploded to SISEC)

Evaluator's general notes

Date

On-site evaluation team

Last name and first name of the expert	Signature

3. Panel meeting report.

ROMANIAN RESEARCH ASSESSEMENT EXERCISE (RRAE)

Panel report

General data:

Evaluated university

Evaluated domain

Criterion I – The results obtained in scientific research

Articles

Total number of uploaded articles

Number of selected articles for quality assessment

(generated by SISEC)

Top international level ($l_{iv}= 1,2$):	
International level ($l_i = 1$):	
National level ($l_n = 0,9$):	
Local level ($l_l=0,7$):	

$F_c, g, a =$ (automatically generated by the platform)

Books and book chapters

Total number of uploaded books and book chapters

Number of selected books and book chapters for quality assessment

(automatically generated by the platform)

Top international level ($l_{iv}= 1,2$):	
International level ($l_i = 1$):	

National level ($I_n = 0,9$):	
Local level ($I_l = 0,7$):	

$F_c, g, c =$ (automatically generated by the platform)

Patents

Total number of uploaded patents

Number of selected patents for quality assessment

(automatically generated by the platform)

Top international level ($I_{iv} = 1,2$):	
International level ($I_i = 1$):	
National level ($I_n = 0,9$):	

$F_c, g, b =$ (automatically generated by the platform)

Translations

Total number of uploaded translations

Number of selected translations for quality assessment

(automatically generated by the platform)

Top international level ($I_{iv} = 1,2$):	
International level ($I_i = 1$):	
National level ($I_n = 0,9$):	
Local level ($I_l = 0,7$):	

$F_c, g, tr =$ (automatically generated by the platform)

Socio-Economic Products

Total number of uploaded products

Number of selected products for quality assessment

(automatically generated by the platform)

Top international level ($I_{iv} = 1,2$):	
International level ($I_i = 1$):	
National level ($I_n = 0,9$):	



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Local level ($l_1=0,7$):	
-------------------------------	--

$F_c, g, p =$ (automatically generated by the platform)

Copyrights Protected Achievements

Total numbers of uploaded achievements

Number of selected achievements for quality assessment

(automatically generated by the platform)

Top international level($l_{iv}= 1,2$):	
International level ($l_i = 1$):	
National level($l_n = 0,9$):	
Local level ($l_1=0,7$):	

$F_c, g, r =$ (automatically generated by the platform)

General notes of assessment panel for Criterion I

Criterion II – Scientific research environment**PhD Advisors****Total number of PhD Advisors***(automatically generated by the platform)*

Top international level($I_{iv} = 1,2$):	
International level ($I_i = 1$):	
National level ($I_n = 0,9$):	
Local level ($I_l = 0,7$):	

*F_c,g,cd = (automatically generated by the platform)***Organization of Scientific Events****Total number of events***(automatically generated by the platform)*

Top international level($I_{iv} = 1,2$):	
International level ($I_i = 1$):	
National level ($I_n = 0,9$):	
Local level ($I_l = 0,7$):	

*F_c,g,ms = automatically generated by the platform***Access to scientific literature****Number of subscriptions to journal in the field****Total number of university subscriptions to journals***(automatically generated by the platform)*

Top international level($I_{iv} = 1,2$):	
International level ($I_i = 1$):	
National level ($I_n = 0,9$):	
Local level ($I_l = 0,7$):	

F_c,g,al = (automatically generated by the platform)

Youth Research Program

Numbers of researchers under 35

Total number of researchers

Total number of evaluated programs

(automatically generated by the platform)

Top international level ($l_{iv} = 1,2$):	
International level ($l_i = 1$):	
National level ($l_n = 0,9$):	
Local level ($l_l = 0,7$):	

F_c,g,ptc = automatically generated by the platform

Research infrastructure

Total investment in the infrastructure

Total number of evaluated infrastructure elements

(automatically generated by the platform)

F_c,g,i = fill out by the evaluator as an unique value for the entire evaluated domain infrastructure

Edited volumes

Total number of edited volumes

(automatically generated by platform)

Top international level ($l_{iv} = 1,2$):	
International level ($l_i = 1$):	
National level ($l_n = 0,9$):	
Local level ($l_l = 0,7$):	

F_c,g,v = automatically generated by the platform

Edited translations

Total number of edited translations and books

(automatically generated by platform)

Top international level ($l_{iv} = 1,2$):	
International level ($l_i = 1$):	
National level ($l_n = 0,9$):	
Local level ($l_l = 0,7$):	

F_c, g, tv = (automatically generated by the platform)

General notes of assessment panel for Criterion II



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Criterion III – The prestige in the academic community

Number of researchers with non-zero scientific production

Total number of researchers in a domain

Number of evaluated elements

(automatically generated by platform)

Top international level ($I_{iv} = 1,2$):	
International level ($I_i = 1$):	
National level ($I_n = 0,9$):	
Local level ($I_l = 0,7$):	

F_c, g, r_c = (automatically generated by the platform)

General notes of assessment panel for Criterion III



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Criteria IV – Research Contracts

Funds attracted for research from national competitions

Funds attracted for research from international competitions

Total number of researchers
(automatically generated by the platform)

General notes of assessment panel for Criterion IV

Date

Assessment panel

Last and first name of expert	Signature

4. Final ranking report.

ROMANIAN RESEARCH ASSESSEMENT EXERCISE (RRAE)

Final ranking report

Domain

Table 1

Numeric values associated to criteria I-IV (SISEC)

University code	University	Criterion I	Criterion II	Criterion III	Criterion IV
	U1	Val(U1)	Val(U1)	Val(U1)	Val(U1)
	U2	Val(U2)	Val(U2)	Val(U2)	Val(U2)
	U3	Val(U3)	Val(U3)	Val(U3)	Val(U3)
	⋮	⋮	⋮	⋮	⋮

Table 2

Numeric values associated to criteria I-IV ranked low (SISEC)

Criterion I	Criterion II	Criterion III	Criterion IV
Val(University code)	Val(University code)	Val(University code)	Val(University code)

Table 3

Scores corresponding to values from Table 2 (based on Annex 1)

Criterion I	Criterion II	Criterion III	Criterion IV
P(U _i)	P(U _j)	P(U _k)	P(U _m)

Table 4

Scores obtained by Universities in ENEC

University code	University	Score Criterion I	Score Criterion II	Score Criterion III	Score Criterion IV



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Date

Assessment panel

Last and first name of expert	Signature

Annex 1: tables of scores from general methodology

Annex 2: Universities codes



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5. International benchmarking report.

ROMANIAN RESEARCH ASSESSEMENT EXERCISE (RRAE)

FISA de benchmarking

General data:

Evaluated University

Domain

Website

Researchers number (in the evaluated domain)

Total number of researchers:

- Professors
- Associated professors
- PhD

Criterion I – The results obtained in scientific research

- Number of articles

- Other relevant results

Data

Panel Coordinator,

Signature

Annex 4. Glossary of terms used in RRAE

In this section are specified the meanings of the main terms used for the application of this guide book.

Published article: a document published by the author/authors. In this case, there are taken into consideration the articles published in ISI indexed journals or in prestigious international data basis.

Patent of invention: a title of protection which gives to the titular an exclusive right of exploitation of the invention object and also the right to forbidden to the third persons (physical and judicial persons) to exploit the invention object.

The university's capacity of supporting postdoctoral programmes: the existence of the human and financial resources at the level of the university and also of a postdoctoral programme.

Scientific book: book written on the basis of the proper scientific activity. The didactic papers are excluded.

Research: creative activity which brings a contribution to knowledge, understanding and innovation with an economic relevance.

Researcher: is the person involved in the conceiving or creating of new knowledge, products, processes, methods and systems and also in their management. The definition refers to any person who is professionally involved in the research-development activity, in any stage of his/her career, regardless of classification. This includes any type of research: basic, strategic, applied ones, experimental development and knowledge transfer, innovation and counseling, supervision and training capacities, knowledge and intellectual copy rights management, the exploitation of the research results or scientific publishing.

Researcher subjected to RRAE evaluation is the employed person with the basic norm (with an individual labour contract) in the university, at 31-st of December, 2010.

PhD Advisor: can be an academician, a correspondent member of Romanian Academy, a full professor and a scientific researcher degree I, who got the legal right to supervise post graduates.

RRAE domain coordinator: the employed person with the basic norm (with an individual labour contract) in the university, at 31-st of December, 2010 and who is appointed by the Rector as responsible for the research evaluation from a certain domain covered by the respective university.

Evaluation criteria: principles on the basis which is done the classification of the universities from Romania as far as the research activity concerns. In the actual methodology, there are taken into account four criteria for the research evaluation from the universities.

Evaluation domain: is one of the forty two research domains described in this guide book.

The Romanian Research Assessment Exercise (RRAE or „the exercise”): an instrument of measuring the research quality from the universities from Romania, and also of identification of the universities with a potential of becoming excellency universities.

Quality factor: a factor settled by the evaluator experts on the basis of the qualitative analysis of the documents from the evaluation file.

Impact factor: the average number of citations from a year of the articles published by the researcher in the preceding two years.

Evaluation indicator: the numerical quantified form of a descriptor.

Innovation: activity oriented to the generating, assimilating and valuing of the results of the research-development in the economic and social area.

Invited papers at prestigious international conferences: papers presented at international conferences and published in the documents of that conference.

University mechanisms for attracting young researchers: the existence of some proper instruments at the university level (example: research programme) and financial facilities dedicated to the young researchers.

Research Evaluation Methodology: assembly of proceedings (information and integrated procedures) used in the achievement of the research activity evaluation on scientific domains, from the universities from Romania.



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Products and innovative services: products/services with an economic impact provable by the effects produced by their application.

Visiting professor at prestigious universities: professor invited at a famous university for a long term period.

Achievements subjected to copy right law: achievements referring to creation, defined as a process of research and innovation from the domains: architecture and art.

The research results: the contribution to knowledge, understanding and innovation, with a socio-economic relevance.