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## ROMANIAN RESEARCH ASSESSEMENT EXERCISE (RRAE)

### EVALUATOR'S GUIDE BOOK

Domain 37: Architecture and Urbanism

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**).

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

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.

	<b>Natural Sciences</b>	<b>Engineering Sciences</b>	<b>Social and Economic Sciences</b>	<b>Humanist Sciences</b>	<b>Arts and Architecture</b>	<b>Life Sciences</b>
<b>Criterion I</b>	70 points	65 points	60 points	60 points	60 points	60 points
<b>Criterion II</b>	10 points	15 points	15 points	15 points	30 points	20 points
<b>Criterion III</b>	10 points	10 points	15 points	15 points	5 points	10 points
<b>Criterion IV</b>	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**).

### Bibliography

[1] *The General Methodology of Evaluation of the Higher Education Scientific Research Quality*, October, 2009, <http://www.ecs-univ.ro/UserFiles/File/Metodologie%20Generala%20cu%20Anexe.pdf>

[2] *The Guide Books Specific To The Evaluation Domains*, September 2010, <http://www.ecs-univ.ro/>

[3] „*Excellency Universities in Romania*” Programme, <http://www.ecs-univ.ro/517/section.aspx/539>

[4] *The Detailed Presentation of the Evaluation Formulas of What is Going To Be Used in The ROMANIAN RESEARCH ASSESSMENT EXERCISE*, November 2010, <http://www.ecs-univ.ro/>

# Annex 1. Particularization of the quality levels meaning according to the specific methodology of the domain Architecture and Urbanism

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

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

The descriptors are:

- **The scientific articles**

**Description:** Scientific articles published in specialty magazines (ISI, International Data Bases and NURC B+ rated magazines)

**Qualitative evaluation:**

**High international level:**

- contributions to the development of research directions (themes), research through projects of international scale in the field of study
- the international prestige of the publication

**International level:**

- underlining research directions (themes), research through local projects in the field of study and / or in related fields of study, identifiable on an international level
- developing innovative methodologies and/ or similar to the international framework specific to the field of study
- the international prestige of the publication

**National level:**

- the novelty of the subject (theme) on a national scale
- the importance of the subject for the development of research in the field of study and/ or in related fields of study, according to international framework
- the importance of the subject in the educational process
- the national prestige of the publication

**Local level:**

- the subject (theme) does not bring notable contribution in the field of study and/ or related fields of study, neither through novelty nor through approach
- the publication is of no acknowledged prestige on a national scale.

▪ **Scientific books of author**

**Description:** monographs, theoretical studies and studies of critics in Architecture and urbanism

**Qualitative evaluation:**

**Top international level:**

- contributing to the development of the field of study or of research directions (themes), research through projects of international scale in the field of study
- the international prestige of the publishing house.

**International level:**

- underlining research directions (themes), research through local projects in the field of study and / or in related fields of study, identifiable on an international level
- developing innovative methodologies and/ or similar to the international framework specific to the field of study
- the international prestige of the publishing house.

**National level:**

- the novelty of the subject (theme) on a national scale
- the importance of the subject for the development of research in the field of study and/ or in related fields of study, according to international framework
- the importance of the subject in the educational process
- the national prestige of the publishing house

**Local level:**

- the subject (theme) does not bring notable contribution in the field of study and/ or related fields of study, neither through novelty nor through approach
- the publishing house is of no acknowledged prestige/ it is of local interest

▪ **Exceptional achievements under the law of author right and the interfacing rights which imply research and innovation in the Architecture and urbanism domain**

**Description:** Architecture and urbanism projects of a great complexity; participant projects at prestigious intern and international significant contests (the ones named, exhibited/presented, awarded/selected by national/international juries, exclusively achieved by university/faculty).

**Qualitative evaluation:**

**Top international level:**

- projects that have been given award at representative international competitions (manifestations)
- the international prestige of the competition (manifestation)

**International level:**

- projects that have been nominated, exhibited/ presented, selected at international competitions (manifestations) within the field of study
- the international prestige of the competition (manifestation)

**National level:**

- projects that have been awarded and/ or selected, nominated by national juries
- the national prestige of the competition (manifestation)

**Local level:**

- projects participating to competitions (manifestations) on a local scale/ with no national prestige; the importance of the projects is minor/ less significant by the evaluation criteria specific to the field of study



## Criterion II: The background of scientific research

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

The descriptors are:

▪ **The capacity of the university to produce translations, anthologies and to edit volumes**

**Description:** The translation and publication of scientific books and manuals, scientific texts of value to the international theory and practice of architecture and urbanism, the publishing of thematic anthologies on speciality subjects, and of scientific papers within collective volumes.

**Qualitative evaluation:** the quality factor is defined in relation to the technical and editorial capacity and the national prestige of the publishing house.

**Top international level:**

- the volumes are published in an international language, addressed to an international professional public, completing through content existing references in a scientific area on an international level
- the volumes are reviewed in prestigious international publications.

**International level:**

- the volumes are published in an international language, addressed to an international professional public and/or a cultivated public, completing through content existing references in a scientific area and introducing national research aspects in international literature.

**National level:**

- the volumes are published in Romanian, addressed to both specialists and non specialists; the works are representative at national level, as an important bibliographic reference.

**Local level:**

- the volumes have a subject of minor/ sequential interest for the professional community; the publishing house is not at national scientific and editorial standards (no referents in the field of study, does not select scientific production). The publication is of little to no significance in the context of national scientific information.

▪ **Phd Advisors**

**Description:** There will be taken into consideration both the Phd Advisors and the Phd theses number, as well as the international Phd students and the theses written in international languages.

**Qualitative evaluation:** the quality evaluation is realised by identifying meta-data on the PhD supervisors (year of appointment, area of expertise, number of PhD students that have finalized and sustained their thesis); list of current PhD students (year of starting their thesis, title of paper, identity of external coordinator in the case of co-tutelage); meta-dates of a representative work – for each PhD student, awards received by PhD students.

▪ **The capacity of the university to organize scientific events of an international level**

**Description:** The organizing of scientific sessions, debates on specialty themes, having significant international participation, the presence in the organizing staff of some international events.

**Qualitative evaluation:** The quality factor is defined depending on the prestige of the participants and the importance of the manifestation/ project competition.

**Top international level:**

- the scientific manifestation and/ or project competition is of acknowledged prestige in the academic and specialists' community. The subject of the manifestation/ competition is actual- as theme and/ or methodology, being important for the progress of research in the specific field of study. The participants are of acknowledged international prestige. In the case of conferences, or that of a project having been given an award, the volume dedicated to the manifestation/ competition is published in an international language.

**International level:**

- the subject of the scientific manifestation/ competition is important due to its contributions to research in the field of study. The participants are of acknowledged international prestige.

**National level:**

- the scientific manifestation/ project competition is addressed to national specialists, dealing with issues of national importance in Architecture and Urbanism. The quality of the manifestation is reflected in the number and the professional prestige of the participants, on a national scale. In the case of conferences, the quality of the follow-up volume is to be taken into consideration.

**Local level:**

- the scientific manifestation/ competition has a sequential objective, a decreased national visibility, with notable impact in the local professional medium.

▪ **Investments programme for laboratories/departments which are equipped with an infrastructure specific to the scientific research, including the library**

**Description:** investments in technical equipment, needed for the type of research activities in Architecture and urbanism domain.

**Qualitative evaluation:** the quality factor is defined depending on the national and international requirements for technical and logistic equipment necessary in the process of research/ design in Architecture and Urbanism.

**Criterion III: The prestige in the academic community**

In the frame of this criterion is analyzed the prestige of the researchers of a university who activate in the Architecture and urbanism domain – by the academic community. The analysis is done on the basis of the individual information of the researchers.

The descriptors are:

▪ **Visiting professor at prestigious universities**

**Description:** visiting professor for at least a week to keep courses/lectures at universities from the country and abroad, at scientific events, specialty congresses of a national and international prestige (only as a „Keynote speaker”)

**Qualitative evaluation:**

**Top international level:**

- the university and/or scientific event are of notable scientific importance in the academic community; the teachers' participation is noted as prestigious event, marked accordingly in the calendar/ program for the respective activity.

**International level:**

- the activity is that of visiting professor at a foreign university, participating in professional events (conferences, colloquia, scientific reunions, finalised by publishing the event)

**National level:**

- the professor is visiting at universities / faculties within the country- participating in the educational process, PhD commissions, juries, professional events of national importance

**Local level:**

- the professor is visiting at universities / faculties within the country- participating in the educational process, PhD commissions, juries, professional events of local importance

▪ **Citations and reviews of the author creation**

**Description:** citations of the specialty papers (projects and/or papers/studies with a theoretical character) and reviews of the specific projects in bibliographies, specialty magazines, culture periodicals, radio and TV broadcasts, web pages etc.

**Qualitative evaluation:**

**Top international level:**

- the appearance of author's works in prestigious international media.

**International level:**

- the appearance of author's works or collective works in international media

**National level:**

- the appearance of author's works or collective works in national media

**Local level:**

- the appearance of author's works or collective works in local media.

▪ **Managing positions in international professional organizations**

**Description:** the presence in diverse prestigious national and international bodies/organizations of the architects and city planners.

**Qualitative evaluation:**

**Top international level:**

- the teacher has a leadership position in a prestigious national and/ or international organisation.

**International level:**

- the teacher has a leadership position in a speciality/ academic international organisation

**National level:**

- the teacher is a member of an academic, professional, governmental organisation of national importance; ARACIS accredited expert evaluator etc



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## Criterion IV: Financial resources brought for the research

In the frame of this criterion is analyzed the researchers' capacity of a university who activate in Architecture and urbanism domain. The analysis is achieved on the basis of the individual data of the researchers.

- **Financial resources brought for the research**

**Description:** public or private funds, brought by research contracts.

The afferent evaluation to criterion IV is totally quantitative, being achieved automatically by the informatics platform of the assessment, without the involvement of the evaluator 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 <sup>th</sup> – 24 <sup>th</sup> of August 2011	P4 - Chemistry	P7 - Mechanical engineering and mechatronics	P27 - Psychology	P34 – Cinematography and performing arts		
24 <sup>th</sup> - 26 <sup>th</sup> of August 2011	P32 - Theology and religious studies	P8 - Aerospațiale engineering	P21 - Law and administrative sciences	P2 - Informatics		
29 <sup>th</sup> - 31 <sup>st</sup> of August 2011	P1 - Mathematics	P30 - Philosophy	P26 - Sociology, anthropology and social assistance	P14 - Electrical engineering	P29 - Sports	
30 <sup>th</sup> August - 1 <sup>st</sup> September 2011	P28 - Education science	P31 - History	P35 - Music			
31 <sup>st</sup> - 2 <sup>nd</sup> September 2011	P12 - Oil, gas and mines	P9 - Transportation	P11 - Materials science	P18 - Computers and information technology	P33 - Philology	
5 <sup>th</sup> - 7 <sup>th</sup> of September 2011	P42 - Pharmacology	P5 - Geology and geography	P24 - Political sciences and international relations	P13 - Industrial engineering	P20 - Environmental sciences	
6 <sup>th</sup> - 8 <sup>th</sup> of September 2011	P10 - Chemical engineering	P17 - System engineering	P16 - Electronics and telecommunications	P23 - Military sciences, security and information	P15- Energetics	
7 <sup>th</sup> - 9 <sup>th</sup> of September 2011	P40 - Veterinary medicine and zootechny	P41 - Medicine	P36 - Visual arts			
12 <sup>th</sup> - 14 <sup>th</sup> 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 <sup>th</sup> - 17 <sup>th</sup> of September 2011	P22 - Economic sciences	P37 - Architecture and urbanism				

## 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<sub>c</sub>, 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<sub>c</sub>,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<sub>c</sub>,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<sub>c</sub>,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 ( $l_l = 0,7$ ):	

$F_c, g, ptc =$  (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<sub>c</sub>, g, tv = (are automatically generated by the platform)*

### Evaluator's general notes regarding Criterion II

**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<sub>c</sub>, g, r<sub>c</sub> = (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

## 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<sub>c,g,i</sub> = 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)

## Evaluator's general notes

### ***Access to scientific literature***

The list of elements uploded 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 uploded 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 ( $I_{iv}= 1,2$ ):	
International level ( $I_i = 1$ ):	
National level ( $I_n = 0,9$ ):	
Local level ( $I_l=0,7$ ):	

$F_c, g, a =$  (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 ( $I_{iv}= 1,2$ ):	
International level ( $I_i = 1$ ):	

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 ( $I_n = 0,9$ ):	

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<sub>c</sub>,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<sub>c</sub>,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<sub>c</sub>,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<sub>c</sub>, g, p<sub>tc</sub> = automatically generated by the platform***Research infrastructure****Total investment in the infrastructure****Total number of evaluated infrastructure elements***(automatically generated by the platform)***F<sub>c</sub>, 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 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<sub>c</sub>, 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<sub>c</sub>, 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 ( $l_{iv} = 1,2$ ):	
International level ( $l_i = 1$ ):	
National level ( $l_n = 0,9$ ):	
Local level ( $l_l = 0,7$ ):	

*F<sub>c</sub>, g, r<sub>c</sub> = (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 <sub>i</sub> )	P(U <sub>j</sub> )	P(U <sub>k</sub> )	P(U <sub>m</sub> )

**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*

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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DEZVOLTĂRII ȘI INOVĂRII

**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.