

FACULTATEA DE INGINERIE MANAGERIALĂ ȘI TEHNOLOGICĂ

Oradea, str. Universității nr.1, Pavilion B, cod 410087, Tel. 0259 408136, Fax. 0259 408436 http://imt.uoradea.ro, mail: imt@uoradea.ro

## PROCEDURE FOR VACANT DIDACTIC AND RESEARCH POSITION CONTEST OF THE

#### FACULTY OF MANAGERIAL AND TECHNOLOGICAL ENGINEERING

- **Art. 1** The contest commission evaluates the candidate from the perspective of the following aspects:
  - a) relevance and impact of the candidate's scientific results;
  - b) capacity of the candidate to guide the students and young researchers;
  - c) didactic competences of the candidate;
  - d) capacity of the candidate to transfer his/her knowledge and results to the economy or social environment or to disseminate these results:
  - e) capacity of the candidate to work in a team and the efficiency of scientific cooperation;
  - f) capacity of the candidate to manage R&D projects;
  - g) professional experience of the candidate in institutions, other than the institution which has the vacancy, specially the experience in higher education and research from the list approved by the Education, Research, Youth and Sports Ministry Order developed in conformity with art. 216 line (2), letter f) from Law 1/2011.
- **Art. 2** The instructor, research assistant employed for an undetermined period and the scientific researcher are hired by public contest, from the ranks of accredited higher education institutions, if they fulfil the following conditions:
  - a) to have a PhD in the fundamental domain of the discipline of the vacancy;
  - b) to have published *minimum 3 scientific papers* (articles, studies) in extensor or in summary, in scientific journals or in national or international conferences;
- **Art. 3 (1)** The contest commission for the instructor position for a determined/undetermined period, for the research assistant position for a undetermined period and for the scientific researcher position is formed in conformity with the own contest Methodology for vacant didactic and research positions at the level of UO.
- (2) The contest for the instructor position for a determined/ undetermined period consists of three tests: written, oral and practical, specific for the position in the day (days), hour and classroom which will be announced by the commission on the Faculty of Managerial and Technological Engineering web page <a href="www.imt.uoradea.ro">www.imt.uoradea.ro</a> and on the faculty's notice board.
- (3) For the written and oral tests, the references will be announced on the webpage of the Faculty of Managerial and Technological Engineering in the same time with the announcement of the vacancy.



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For the written test the candidate will pick a subject. The exam subjects (minimum 5), will be elaborated by the Commission, nominated by the rector's decision, in conformity with the thematic and the announced references.

The candidate will fulfil the oral test if he/she passes the written test with the mark 8.00 at least. For the oral test the candidate will pick up a subject. The subjects (minimum 5), will be elaborated by the Commission, nominated by the rector's decision, in conformity with the thematic and the announced references.

- **(4)** The contest commission will establish the subject for the practical test with 48 hours before the beginning, on the Faculty of Managerial and Technological Engineering web page <a href="www.imt.uoradea.ro">www.imt.uoradea.ro</a> and on the faculty's notice board. The practical test consists of delivering a seminar or a practical presentation to an audience formed by students in the presence of the commission.
- **(5)** The public presentation lasts at least 45 minutes, in which the candidate presents the most significant results of his/her professional results and a development plan for the academic career. This test contains a session of questions from the commission and the public.
- **Art. 4** For the position of lecturer or degree III scientific researcher the candidates will have to fulfil the following cumulated conditions:
  - a) to have a PhD in the fundamental domain of the discipline of the vacancy;
  - b) to fulfil the minimal national standards for didactic positions of lecturer, by the Education, Research, Youth and Sports Ministry Order developed in conformity with art. 216 line (1), from Law 1/2011;
  - c) to have published minimum 3 scientific papers (in extensor or in summary) in scientific journals or in national or international conferences;
  - d) to have elaborated at least one specialty book, published by a renowned national or international editor;
  - e) to have elaborated, at least in electronic format, a didactic specialty material for the students;
- **Art. 5 (1)** The contest for the vacant position of lecturer or scientific researcher of third degree consists of analyzing the contest documents, delivering a presentation with didactic/scientific character, by case, in the presence of the commission and a public presentation.
- **(2)** The subject of the contest will be announced by the commission on the Faculty of Managerial and Technological Engineering web page <a href="www.imt.uoradea.ro">www.imt.uoradea.ro</a> and on the faculty's notice board, in the same time with the announcement of the vacancy.
- (3) The thematic of the didactic/scientific presentation is established by the commission with 48 hours before the beginning of the presentation on the webpage of the Faculty of Managerial and Technological Engineering web page <a href="www.imt.uoradea.ro">www.imt.uoradea.ro</a> and on the faculty's notice board. The public presentation must last at least 45 minutes in



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which the candidate presents the most significant results of his/her professional results and a development plan for the academic career. This test contains a session of questions from the commission and the public.

- **(4)** The presentation is evaluated with the following marks: *unsatisfactory, satisfactory, good, very good, excellent*. In order to pass the exam the candidate has to obtain the mark: *very good*. In order to compute the mark, after the analysis of the documents the performance indicators from: "*Procedure for evaluation and assurance of quality of teachers and of the study disciplines of University of Oradea*" will be used.
- **Art. 6** For the position of *associate professor or degree II scientific researcher* the candidates will have to fulfil the following cumulated conditions:
  - a) to have a PhD in the fundamental domain of the discipline of the vacancy;
  - b) to fulfil the minimal national standards for didactic positions of associate professor in higher education institutions, approved through the minister order, valid at the time of the contest;
- **Art. 7** For the position of *professor or degree I scientific researcher* the candidates will have to fulfil the following cumulated conditions:
  - a) to have a PhD in the fundamental domain of the discipline of the vacancy;
  - b) to fulfil the minimal national standards for didactic positions of *professor in higher education institutions and degree I scientific researcher*, approved through the minister order, valid at the time of the contest;
- **Art. 8 (1)** The contest for the vacant position of associate professor or degree II scientific researcher and professor or degree I scientific researcher consists of the analysis of the documents and the delivery of a public presentation.
- (2) The public presentation must last at least 45 minutes in which the candidate presents the most significant results of his/her professional results and a development plan for the academic career. This test contains a session of questions from the commission and the public.
- (3) The candidates previously employed in other institutions than higher educational ones, will also deliver a presentation before the students. The thematic of the didactic/scientific presentation is established by the commission with 48 hours before the beginning of the presentation on the webpage of the Faculty of Managerial and Technological Engineering web page <a href="www.imt.uoradea.ro">www.imt.uoradea.ro</a> and on the faculty's notice board.
- **(4)** The commission for associate professor or degree II scientific researcher and professor or degree I scientific researcher, formed in conformity with "The contest methodology for vacant didactic and research positions occupancy of the University of Oradea" will proceed with establishing the hierarchy of the candidates, taking into account art. 22 of the same methodology.



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- **Art. 9 (1)** For every position, the commission decides the hierarchy of the candidates and nominates the candidate with the best results.
- **(2)** The president of the commission will make a report on the contest, on the basis of the evaluation reports given by every member of the contest commission in respect of the hierarchy decided by the commission.
- (3) The report on the contest is approved by the decision of the contest commission and is signed by every member and by the president of the contest commission.
- **(4)** The president of the commission transmits the report on the contest, approved by the commission's decision, the evaluation reports, and the original folder with the candidate's documents to the management of the faculty/department/center, in respect of the contest's terms.



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#### **Appendix**

# Grids to assess candidates in the contest for didactic teaching assistant and lecturer

### 1. University Assistant

| No. | Evaluation Criteria                   | Performance Indicator  | Min. value   |
|-----|---------------------------------------|--|--------------|
| 1.  | Written examination                   | Achieved grade   | Minimum 8.00 |
| 2.  | Oral examination                      | Achieved grade   | Minimum 9.00 |
| 3.  | Practical examination                 | Achieved grade   | Minimum 9.00 |
| 4.  | Elaborated papers (articles, studies) | Number of scientific papers published in extenso or in summary | 3            |

#### 2. Lecturer

| No. | Evaluation Criteria   | Performance Indicator   | Min. value                              |
|-----|---|---|---|
| 1.  | Deliver a lecture before the specialty committee            | Achieved grade  | Very good                               |
| 2.  | Elaborated papers   | Number of scientific papers published in extenso or in summary in journals or proceedings of national and international scientific meetings |   |
| 3.  | Elaboration of specialty books                              |   |   |
| 4.  | Elaboration of specialty teaching materials for student use | Number of specialty teaching materials for student use  | Minimum 1 (at least in electronic form) |

# AOMANIA TO AOMANIA

#### UNIVERSITATEA DIN ORADEA

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#### 3. Professor, Associate Professor

#### I. Scientific domains: Automotive Engineering, Transport Engineering

MINIMAL REQUIRED AND MANADATORY STANDARDS FOR CONFFERING THE DIDACTIC TITLES IN HIGER EDUCATION AND THE PROFESIONAL GRADES FOR RESEARCH AND DEVELOPMENT

#### 1. Proposal of definition of the structure of the candidate activity

| No. | Domain                 | Type of activities  | Categories and restrictions  | Subcategories  | Indicators<br>(kpi)                            |
|-----|------------------------|---|--|--|--|
| 0   | 1                      | 2   | 3  | 4  | 5  |
| 1   |                        |   | 1.1.1. Books /<br>chapters, as author  |  | Number of pages<br>/(2*number of<br>authors)   |
|     |                        |   |  |  | Number of pages<br>/(5*number of<br>authors)   |
|     |                        |   | 1.1.2. Books /<br>chapters, as editor  | 1.1.2.1 international;   | Number of pages<br>/(3* number of<br>editors)  |
|     |                        |   |  | 1.1.2.2 national;  | Number of pages<br>/(7* number of<br>editors)  |
|     |                        |   | 1.2.1. Didactic text<br>books / monographs-<br>for Professor / CS I at<br>least 2 of which 1 first<br>author; For Associate<br>Professor / CS II at<br>least 1 |  | Number of pages<br>/(10* number of<br>authors) |
|     |                        |   | 1.2.2. Laboratory manual / applications; Teacher / CS I at least 2, of which 1 first author; Associate Professor / CS II at least 1                            |  | Number of pages<br>/(20* number of<br>authors) |
|     |                        | study programs,   | 1.3.1. Director / responsible  |  | 10* number of ongoing years.                   |
|     |                        | organizing and coordinating continue training programs      | 1.3.2. Member  |  | 3* number of ongoing years.                    |
|     |                        |   | max. 50 points in total  | Steering diploma work /<br>dissertation / Doctoral<br>reviewer | 1/1,5  |
|     |                        | 1.5 Introducing new disciplines                             | max. 45 points in total  |  | 15   |
| 2   | Research activity (A2) | 2.1 Articles in extenso in ISI Thomson Reuters journals and | 2.1.1. Minimum 11 papers for professor / CS I  |  | (25+20*impact<br>factor)/no. of authors        |



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|   |                 | <u></u>   |   |  |                              |
|---|-----------------|---|---|--|------------------------------|
|   |                 | proceedings, patents  | 2.1.2 Minimum 6 papers for Assistant professor / CS II                                  |  |                              |
|   |                 | P   | 2.2.1. Minimum 16<br>papers for professor /<br>CS I                                     |  | 20/ no. of authors;          |
|   |                 | of scientific<br>manifestations,<br>indexed in<br>international<br>databases  | 2.2.2. Minimum 8 papers for Assistant professor / CS II                                 |  |                              |
|   |                 | 2.3 Articles published in national journals and proceedings of national and international non-indexed scientific manifestations |   |  | 5/ no. of authors            |
|   |                 | 2.4 Grants / projects awarded by  | 2.4.1. Director / responsible   | 2.4.1.1 internationale                       | 20* number of ongoing years. |
|   |                 | competition   | - Minimum 2 for<br>Professor / CS I;<br>Minimum 1 for<br>Associate Professor /<br>CS II | 2.4.1.2 nationale                            | 10* number of ongoing years. |
|   |                 |   | 2.4.2. Member of the team   | 2.4.2.1 international                        | 4* number of ongoing years.  |
|   |                 |   |   | 2.4.2.2 national                             | 2* number of ongoing years.  |
|   |                 | 2.5. Research projects / consultancy with   | 2.5.1. Director / responsible   | international/national                       | 5* number of ongoing years.  |
|   |                 | the economic<br>environment   | 2.5.2. Member of the team   | international/national                       | 2* number of ongoing years.  |
| 3 | _               | 3.1 Citations in ISI  |   | 3.1.1 ISI                                    | 15/ no. of authors           |
|   | of the activity | and BDI journals  |   | 3.1.2 BDI                                    | 10/ no. of authors           |
|   | (A3)            | 3.2 Plenary invited presentations in national and   |   | 3.2.1 international                          | 20                           |
|   |                 | international<br>scientific events and<br>Visiting Professor<br>(excluding ERASMUS)   |   | 3.2.2 national                               | 5                            |
|   |                 | 3.3 Member of the editorial staff or  |   | 3.3.1 ISI                                    | 10                           |
|   |                 | scientific committees   |   | 3.3.2 BDI                                    | 8                            |
|   |                 | of scientific journals<br>and manifestations,<br>organizer of scientific<br>manifestations /                                    |   | 3.3.3 national and international not indexed | 5                            |



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| Reviewer                                      |                          |                            |
|---|--------------------------|----------------------------|
| 3.4 Management experience, analysis           | 3.4.1<br>Steering        | 5* number of ongoing years |
| and evaluation in research and / or education | 3.4.2 Member / evaluator | 2* number of ongoing years |
| 3.5 Referent doctoral committees              | International/national   | 10/5                       |

**Optional criteria** 

| Optio | onai criteria                          |                                    |                                    |     |
|-------|--|------------------------------------|------------------------------------|-----|
|       | 3.6                                    |                                    | 3.5.1 Romanian Academy             | 30  |
|       | Awards                                 |                                    | 3.5.2 Branch academies and CNCSIS  | 15  |
|       |  |                                    | 3.5.3 international awards         | 10  |
|       |  |                                    | 3.5.4 national awards in the field | 5   |
|       | 3.7 Member of academies,               | 3.6.1 Romanian<br>Academy          |                                    | 100 |
|       | prestigious national and international | 3.6.2 Branch<br>academies          |                                    | 30  |
|       | organizations,<br>associations         | 3.6.3 Steering professional        | 3.6.3.1 international              | 30  |
|       | membership of organizations in the     | associations                       | 3.6.3.2 national                   | 15  |
|       | field of education and                 | 3.6.4 Professional<br>Associations | 3.6.4.1 international              | 10  |
|       | research                               | Associations                       | 3.6.4.2 national                   | 5   |
|       |  | 3.6.5 Organizations in             | 3.6.5.1 conducere                  | 15  |
|       |  | education and<br>research          | 3.6.5.2 Member                     | 10  |

2. The formula for computing the index of merit (A=A1+A2+A3)

$$A = \sum_{i} k_{1i} + \sum_{i} k_{2i} + \sum_{i} k_{3i}$$

where:

 $\ensuremath{k_{\text{pi}}}\xspace$  - Index specific to the type and category of activity

#### 3. Minimal conditions (A<sub>i</sub>)\*

|     | Category                                   |                                      |                  |                         |                 |
|-----|--|--------------------------------------|------------------|-------------------------|-----------------|
| No. | Field of activity                          | Conditions<br>Associate<br>Professor | Conditions CS II | Conditions<br>Professor | Conditions CS I |
|     | Teaching and professional activity (A1) ** | Minimum 100 points                   |                  | Minimum<br>180 points   |                 |



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| 2     | Research activity (A2)                          | Minimum 80<br>points | Minimum 180<br>points | Minimum<br>170 points | Minimum 350 points |
|-------|---|----------------------|-----------------------|-----------------------|--------------------|
| 3     | Recognition and the impact of the activity (A3) | Minimum 20 points    | Minimum 20 points     | Minimum 50 points     | Minimum 50 points  |
| TOTAL |   | 200 points           | 200 points            | 400 points            | 400 points         |

where:

A<sub>i</sub> - sum of the activities from the mentioned category

Note: \*) Depending on the candidate (teaching, research), the Ai coefficients can have different values, including zero.

\*\*) For the scientific research careers are taken into account the scientific performance components (A2) and recognition of the impact of the activity (A3)

#### II. Scientific domains: Industrial Engineering, Engineering and Management

MINIMAL REQUIRED AND MANADATORY STANDARDS FOR CONFFERING THE DIDACTIC TITLES IN HIGER EDUCATION AND THE PROFESIONAL GRADES FOR RESEARCH AND DEVELOPMENT

|     | 1. Proposal of definition of the structure of the candidate activity |   |                                      |  |  |  |  |
|-----|--|---|--------------------------------------|--|--|--|--|
| No. | Activity<br>domanin  | Type of activities                        | Categories and restrictions          | Subcategories  | Unitary<br>Indicators<br>(kpi)               |  |  |
| 0   | 1  | 2   | 3                                    | 4  | 5  |  |  |
| 1   | Teaching and professional activity (A1)                              | 1.1 Books and chapters in specialty books | 1.1.1 Books / chapters,<br>as author | 1.1.1.1<br>international   | Number of pages /(5* number of authors)      |  |  |
|     |  |   |                                      | 1.1.1.2 national<br>(Editors   | Number of pages /(10*                        |  |  |
|     |  |   | 1.1.2 Books as editor                | recognized by CNCSIS); Professor minimum 2 as first author; Associate professor minimum 1as first author 1.1.2.1 international | number of authors)  Number of pages /(10*no. |  |  |
|     |  |   |                                      | 1.1.2.2 national   | of editors)<br>Number of                     |  |  |
|     |  |   |                                      |  | pages /(20*no.<br>editors)                   |  |  |



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|   |                           | 1.2 Didactic materials /<br>Didactic works  | 1.2.1 Didactic text books / monographs - Minimum 1. As first author for Professor / CS I; Minimum 1 manual/ monograph as first author for Associate Professor / CS II; 1.2.2 Laboratory manual / applications; |  | Number of pages /(20* number of authors)  Number of pages /(25*                               |
|---|---------------------------|---|--|--|---|
|   |                           | 1.3 Coordination of study programs, organizing and coordinating continue training programs      | Professor-minimum 2 - As first author; Associate Professor - minimum 2 - coauthor. Director/ Responsible/ President  |  | number of<br>authors)   |
|   |                           | 1.4 Introducing new disciplines   | Course holder  |  | 10  |
|   |                           | 1.5 Educational projects<br>(Erasmus, Leonardo, etc.)   | Director/ Responsible  |  | 10 * (number of ongoing years)  |
| 2 | Research<br>activity (A2) | 2.1 Articles in ISI Thomson<br>Reuters and ISI Proceedings<br>volume **                         |  |  | (30 + 10 * impact factor)/ (number of authors) (Journals) 25/ number of authors (Proceedings) |
|   |                           | proceedings of scientific   | Minimum 8 for<br>professor; Minimum 5<br>for Associate Professor   |  | 15/ number of authors   |
|   |                           | 2.3 Articles in extenso in<br>not indexed national /<br>international Journals /<br>Proceedings | Maximum two articles<br>in the same edition are<br>allowed   |  | 6/ number of authors (Journals) 4/ number of authors (Proceedings)                            |
|   |                           | 2.4 Intellectual property, patents and innovation, etc  |  | 2.4.1<br>international<br>2.4.2 national | 40/ number of authors 20/ number of authors   |
|   |                           | 2.5 Grants / projects awarded by competition  | 2.5.1 Director/<br>Responsible -<br>Minimum 2D or 4R***  | 2.5.1.1<br>international                 | 20* value/ (10<br>thousands euro<br>*no. years)   |



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|   |                      |  | for Professor / CS I;<br>Minim 1D or 2R*** for<br>Associate Professor /<br>CS II | 2.5.1.2 national                                       | 10* value / (10<br>thousands euro<br>* no. years) |
|---|----------------------|--|--|--|---|
|   |                      |  | 2.5.2 Member of the team   | 2.5.2.1 international                                  | 4*no. years of participation in the project       |
|   |                      |  |  | 2.5.2.2 national                                       | 2* no. years of participation in the project      |
|   |                      | 2.6 Coordination / Laboratory development / research center (if also didactic, quantify score once)                                | Responsible  |  | 40  |
| 3 | and the impact       | 3.1 Citations in ISI and BDI journals  |  | 3.1.1 ISI  | 10/no. authors of cited article                   |
|   | of the activity (A3) |  |  | 3.1.2 BDI  | 5/ no. authors of cited article                   |
|   |                      | 3.2 Plenary invited presentations in national and international scientific   |  | 3.2.1 international                                    | 20  |
|   |                      | events and Visiting Professor (excluding ERASMUS)  |  | 3.2.2 national   | 10  |
|   |                      | 3.3 Member of the editorial staff or scientific  |  | 3.3.1 ISI  | 10  |
|   |                      | committees of scientific journals and scientific   |  | 3.3.2 BDI  | 8   |
|   |                      | manifestations, scientific organizer / Reviewer for scientific journals and manifestations, national and international ISI indexed |  | 3.3.3 national<br>and international<br>not indexed     | 5   |
|   |                      | 3.4 Management experience, analysis and  |  | 3.4.1 Steering   | 5* number of ongoing years                        |
|   |                      | evaluation in research and /<br>or education   |  | 3.4.2 Member   | 2* number of ongoing years                        |
|   |                      | Optional criteria  |  |  |   |
|   |                      | 3.5 Awards   |  | 3.5.1 Romanian<br>Academy                              | 30  |
|   |                      |  |  | 3.5.2 ASAS,<br>AOSR, Branch<br>academies and<br>CNCSIS | 15  |



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|  |  | 3.5.3<br>international<br>awards   | 10  |
|--|--|------------------------------------|-----|
|  |  | 3.5.4 national awards in the field | 5   |
| 3.6 Member of academies, prestigious national and  | 3.6.1 Romanian<br>Academy                |                                    | 100 |
| international organizations,<br>associations membership<br>of organizations in the field | 3.6.2 ASAS, AOSR and Branch academies    |                                    | 20  |
| of education and research  | 3.6.3 Steering professional associations | 3.6.3.1<br>international           | 30  |
|  |  | 3.6.3.2 national                   | 10  |
|  | 3.6.4 Professional associations          | 3.6.4.1<br>international           | 5   |
|  |  | 3.6.4.2 national                   | 3   |
|  | 3.6.5 Organizations in education and     | 3.6.5.1 Steering                   | 10  |
|  | research field.                          | 3.6.5.2 Member                     | 5   |

**Note: \*)** International database (IDB) considered for articles published in magazines and published in proceedings of scientific meetings, except for articles published in ISI international journals are internationally recognized scientific like (non limiting): Scopus, IEEE Xplore, Science Direct, Elsevier, Wiley, ACM, DBLP, Springerlink, Engineering Village, Cabi, Emerald, CSA, Compendex, INSPEC, Referativnai Journal, Google Scholar.

- \*\*) Since last promotion (for teachers) or in the last 5 years (for candidates from outside the education system).
- \*\*\*) It will consider from the total budget of the project, the amount for which the institution rests responsible.
- 2. The formula for calculating the index of merit (A=A1+A2+A3)

$$A = \sum_{i} n_{1i}k_{1i} + \sum_{i} n_{2i}k_{2i} + \sum_{i} n_{3i}k_{3i}$$

where:

npi - number of activities in category

kpi - coefficient specify to the type and category of activity.

#### 3. Minimal conditions (A<sub>i</sub>)\*

|     | Category  |                                   |                      |                         |                      |  |  |
|-----|---|-----------------------------------|----------------------|-------------------------|----------------------|--|--|
| No. | Field of activity                               | Conditions Associate<br>Professor | Conditions CS<br>II  | Conditions<br>Professor | Conditions CS I      |  |  |
|     | Teaching / professional<br>activity (A1) **     | Minimum 80points                  |                      | Minimum<br>130points    |                      |  |  |
| 2   | Research activity (A2)                          | Minimum 130points                 | Minimum<br>210points | Minimum<br>230points    | Minimum<br>360points |  |  |
|     | Recognition and the impact of the activity (A3) | Minimum 40points                  | Minimum<br>40points  | Minimum<br>70points     | Minimum<br>70points  |  |  |



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| TOTAL | 250points | 250points | 430points | 430points |
|-------|-----------|-----------|-----------|-----------|
|       |           |           |           |           |

where:

A<sub>i</sub> - sum of the activities from the mentioned category

Note: Depending on the level of the candidate (teaching, research), the Ai coefficients can have different values, including zero.

For the scientific research careers are taken into account the scientific performance components (A2) and recognition of the impact of the activity (A3)

A: An article in extenso ISI Th. R can equate to two articles published in ISI summary

# STATEA DIVORDE

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#### III. Scientific domains: Mechanical Engineering, Mechatronics, Robotics

## MINIMAL REQUIRED AND MANADATORY STANDARDS FOR CONFFERING THE DIDACTIC TITLES IN HIGER EDUCATION AND THE PROFESIONAL GRADES FOR RESEARCH AND DEVELOPMENT

Are considered three main evaluation chriterias corresponding to the following categories of activities.

- 1. Scientific research, technological development and innovation (CDI acronym)
- 2. Didactic activity (acronym DID)
- 3. Recognition and impact of the activity (acronym RIA)

Specific aspects which are highlighted for each type of activity are summarized in Table 1.

Table 1. Evaluation criteria and associated objectives

| Scientific research, technological development and innovation (CDI)  | Didactic and professional activity (DID)  | Recognition and impact of the activity (RIA)   |
|--|---|--|
| international recognition of the RDI results • Developing technical solutions and original products, with socioeconomic impact | <ul> <li>Development and<br/>modernization of general and<br/>specialty subjects</li> </ul> | <ul> <li>Raising financial resources through grants and contracts</li> <li>Director and responsible partner grants and contracts</li> <li>Member of the research team grant / contract.</li> </ul> |

For teachers in higher education will be used minimum standards for the three criteria, CDI, DID and RIA, and for granting professional degrees in research and development CDI and RIA criteria will be used.

#### **Evaluation indicators for minimum standards**

Table 2. Specific indicators for the Mechanical Engineering, Mechatronics and Robotics

| CDI Criteria   |   | DID Criteria   |             | RIA Criteria   |                |  |
|--|---|--|-------------|--|----------------|--|
| Indicators with main contribution (mandatory) in the criteria                      |   |  |             |  |                |  |
| Results and communications published as scientific articles (CDI-ART)              | communications 60% support print or published as scientific electronic format (DID- |  | 60%         | Projects Management a) national or international grant manager or responsible partner in the consortium (RIA-GRA) b) contracts directly with beneficiaries of the economic environment (RIA-CTR) | minimum<br>60% |  |
| I  | ndicators v   | with complementary cont  | ribution in | the criteria   |                |  |
| b) Products, technologies<br>and innovative services<br>(CDI- PTS)<br>c) Specialty |   | a) Laboratories / stands<br>for didactic activities in<br>(DID-LAB)<br>b) Educational<br>Computing Platforms<br>(DID -PIE) |             | Research - development -<br>innovation in grants /<br>projects   |                |  |



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| MON) |  |  |  |
|------|--|--|--|
|      |  |  |  |
|      |  |  |  |
|      |  |  |  |

Principles of quantitative assessment of criteria and of establishing minimum standards

Evaluation of the criteria with the indicators in Table 2 takes into account the following principles:

- The points corresponding for a criteria is constituted from the sum of the points for the main and complementary indicators of the criteria.
- From the value of one criteria, minimum 60% must be from the main indicators. The points corresponding to the minimal standard for an criteria may be realized integrally with the main indicators.
- From the value of a criteria, maximum 40% may come from complementary indicators. The points corresponding to the minimum standard for one criteria can NOT berealized integrally with complementary indicators.

For employment trough competition in higher education or in research and development institutions can adopt other evaluation indicators (main or complementary). The minimal standards established through this methodology represents an eligibility criteria for participating in the competition for employment of positions in higher education or in research and development, respectively for validation of the competition by the CNATDCU.

Table 3. Minimum standards for scientific domains "Mechanical Engineering, Mechatronics and Robotics"

| Crit. | University professor  | Scientific researcher. I | Associate Professor   | Scientific researcher. II                                   |
|-------|---|--------------------------|---|---|
|       | from which minimum 6  | which minim 6 points     | which minim 3 points din                                      | Minim 5 points, from<br>which minim 3 points<br>din CDI-ART |
|       | Minimum 10 points,<br>from which minim 6<br>points din DID- MSC |                          | Minimum 5 points, from<br>which minim 3 points din<br>DID-MSC | Not applicable  |
| RIA   | Minimum 10 points   | Minimum 10 points        | Minimum 5 points  | Minimum 5 points  |

#### **CDI Criteria**

| CDI indicator    | Description | Points                             | Observations  |  |
|------------------|-------------|------------------------------------|---|--|
| minimum standard |             | FI* = 0.1 + Impact Factor          | • Corrected impact factor FI* takes in consideration articles in BDI indexed publications or nISI indexed (with no impact |  |
| CDI-BRV          | Patents     | points 1 national patent = 1 point | factor) trough the threshold value of 0.1 • Articles with FI* <sub>article</sub> = 0 can be taken into account            |  |



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| CDI-MON Specialty monographies |                        | 1 point = 10 pages of      | but with $\sum FI^*_{citation} > 0$         |
|--------------------------------|------------------------|----------------------------|---|
|                                | chapters in monographs | contribution of            | <ul> <li>Excludes auto-citations</li> </ul> |
|                                |                        | monoghraphies in a foreign | <ul> <li>National monographs</li> </ul>     |
|                                |                        | prestigious publishing*    | must be included in the                     |
|                                |                        | 1 point= 50 pages of       | legal deposit of the National               |
|                                |                        | contribution, national     | Library                                     |
|                                |                        | publishing                 |   |

<sup>\*</sup> prestigious foreign publishing: Elsevier, Springer, John Wiley & Sons, McGraw-Hill, CRC Press, Francis & Taylor, Oxford University Press, Cambrige University Press, Academic Press, Kluwer Academic Publishers

#### **DID Criteria**

| DID Indicators | Description  | Points   | Observation  |
|----------------|--|--|--|
|                | Course support manuals, printed or electronic format |  | <ul> <li>The candidate must be the main<br/>author (single author or first<br/>author) of the manual. For the<br/>electronic format principal</li> </ul> |
|                | laboratory papers elaborated                         | laboratory work with infrastructure developed by the | authorship is certified by department leadership • For stands or teaching laboratories, the developer status is certified by the department leadership.  |

#### **RIA Criteria**

| RIA Indicators   | Description   |                     | Points      |   | Observations  |  |  |
|------------------|---|---------------------|-------------|---|---|--|--|
| Main contributio | n (minimum 60%) as grant /p   | roje                | ct director |   |   |  |  |
| RIA-GRA          | •   |                     | 10000 EUR   |   | • The quality of director or responsible partne is certified by the legal representative of the |  |  |
|                  | Director and responsible partner national grant   | 1 point = 50000 RON |             | institution in which the grant or contract v<br>implemented<br>• Are taken into account exclusively   |   |  |  |
|                  | Director of a contract with a beneficiary from the international economic environment  Director of a contract with a beneficiary from the national economic environment |                     | 0 EUR       | amounts received by the institution where t<br>grand has been implemented (for consortiur<br>is taken into account the amount allocated<br>the institution) |   |  |  |
|                  |   |                     |             |   |   |  |  |

Complementary contribution as a member of the research team grant / project

- Membership of the team project is certified by the institution which developed the project, provided that the member project team to collect labor
- Points for the amounts in RIA and RIA-GRA-CTR is 0.25 points for a team member instead of 1 point for director / responsible partner