

Consiliul Studiilor Universitare de Doctorat
Universitatea Națională de Știință și Tehnologie
POLITEHNICA București

METODOLOGIA CERCETĂRII ȘI AUTORAT ȘTIINȚIFIC

Ştefania STOLERIU

Cursul 1

Anul universitar
2024-2025

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Council of Doctoral Studies
National University of Science and Technology
POLITEHNICA Bucharest

RESEARCH METHODOLOGY AND SCIENTIFIC AUTHORSHIP

Ştefania STOLERIU

1st Lecture

Academic Year
2024-2025

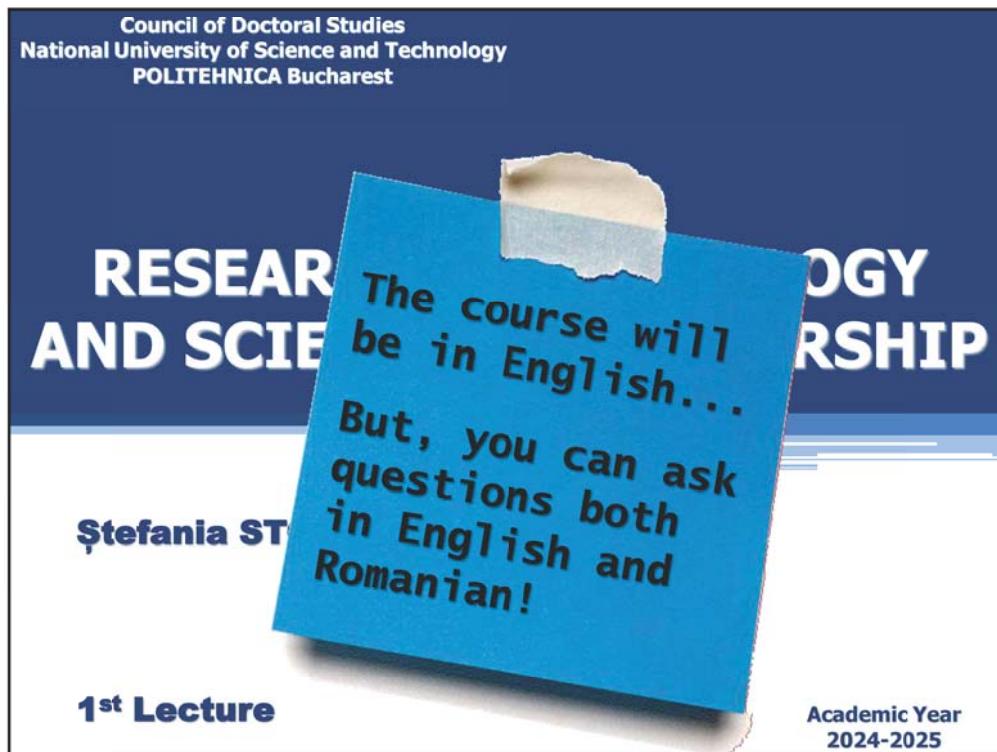
2

This lecture support is for PhD students

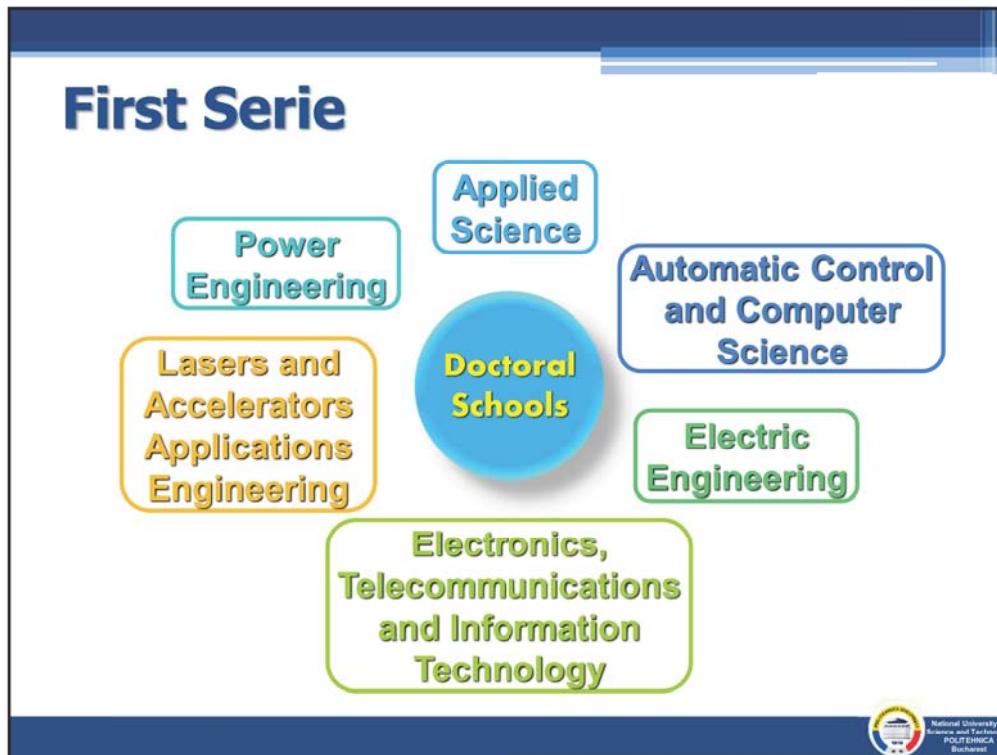
from first year of study (2024-2025)

1st Serie / C.S.U.D. – POLITEHNICA Bucharest

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This lecture support is for PhD students

from first year of study (2024-2025)

1st Serie / C.S.U.D. – POLITEHNICA Bucharest

1st Lecture content

- Research methodology
- Stages in PhD thesis elaboration
- Scientific documentation
- Capitalizing on the scientific results (writing research reports, selection criteria for ISI journals, patents)



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Methodology (DEX)

- Science that deals with the methods of research
- The totality of research processes and methods used for science.



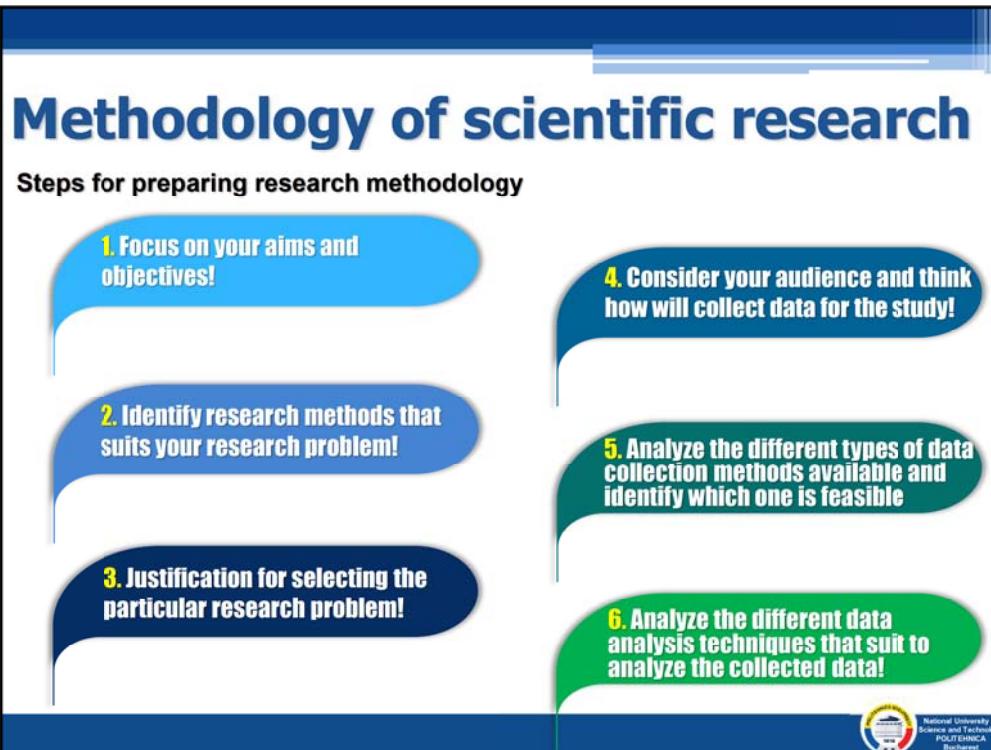
Research methodology

All processes and methods used for scientific research.

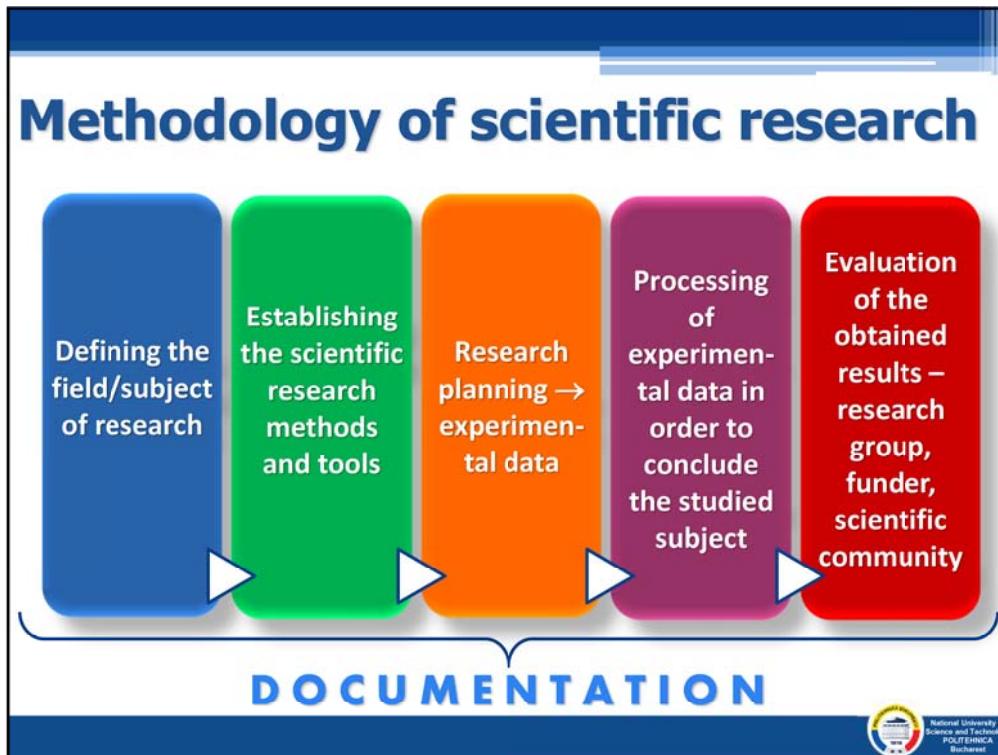
The science of research planning & management



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PhD studies



Law 199/2023 – the Law of Higher Education (about PhD - chapter 5, section 12)

- ORDER 5110/17.09.2018 on the approval of national minimum criteria for PhD title awarding
- MO 3020/8.01.2024 - The framework regulation regarding the doctoral studies
- POLITEHNICA University Carta



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PhD studies

- Law 199/2023 – The law of higher education (chapter 5, section 12)
- MO 3020/8.01.2024 - The framework regulation regarding the doctoral studies

a) **scientific PhD** → original, internationally relevant scientific knowledge, based on scientific methods, organized only in the form of full-time education.

professional career in higher education and research;

b) **professional PhD (arts, sports, military sciences, dual university education)** → original knowledge based on the application of the scientific method, systematic reflection or applied research on artistic creations, on performances high-level national and international sports or on topics of practical importance

professional career in higher education and in research, in the targeted fields.



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PhD studies

RO EN

1 st year	2 nd year	3 rd year	4 th year	5 th year	6 th year
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one year can be reduced at the request of the PhD student, approved by the PhD supervisor and Politehnica Senate

Suggested by PhD supervisor and with Politehnica Senate approval

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PhD studies

RO EN

1 st year	2 nd year	3 rd year	4th year
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In first 3 months
- training program based on university advanced studies (PPA) = 30 credits

1. First report, 6 months after the completion of the PPA, in the form of a project (individual plan of scientific research) which contains the title of the PhD thesis, the broad lines of the future thesis, the present knowledge in the field, the objectives of the study, the research methodology, the schedule of the activities, etc.

Scientific research program (PCS) = 120 credits
- individual plan of scientific research
- progress reports

PhD Supervisor
Advisory committee

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PhD studies

RO EN

In first 3 months

- training program based on university advanced studies (PPA) = 30 credits

Scientific research program (PCS) = 120 credits

- individual plan of scientific research
- progress reports

PhD Supervisor
Advisory committee

2-4. three progress reports presented as follows: one in December of the 2nd year of doctoral studies, the next in June of the 2nd year and the last in December of the 3rd year of doctoral studies.

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PhD studies

RO EN

In first 3 months

- training program based on university advanced studies (PPA) = 30 credits

Scientific research program (PCS) = 120 credits

- individual plan of scientific research
- progress reports

PhD Supervisor
Advisory committee

5. PhD thesis submission for analysis of advisory committee in order to obtain the agreement for public defense (the final report).

National University of Science and Technology POLITEHNICA Bucharest

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PhD studies

RO EN

1 st year	2 nd year	3 rd year	4 th year
----------------------	----------------------	----------------------	----------------------

In first 3 months
 - training program based on university advanced studies (PPA) = 30 credits

Scientific research program (PCS) = 120 credits
 - individual plan of scientific research
 - progress reports

PhD Supervisor
 Advisory committee

Examination board
 Corrections / final submission
 Public defense



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PhD studies

RO EN

1 st year	2 nd year	3 rd
----------------------	----------------------	-----------------

In first 3 months
 - training program based on university advanced studies (PPA) = 30 credits

Scientific research program (PCS) = 120 credits
 - individual plan of scientific research
 - progress reports

PhD Supervisor
 Advisory committee

Important Information

- According to the law, the thesis will be uploaded to UEFISCDI platform with **90 days before** public defense (antiplagiarism rule). **Anyone can check your thesis for plagiarism!**
- After public defense of the thesis, IOSUD will send it to Romanian National Library



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Stages in PhD thesis elaboration

- **Choosing** the field/research topic
- **Establishing** the research plan (stages, deadlines, necessary resources, etc.) – exams / research reports
- Research **planning**
- **Processing and interpretation** of the obtained data
- **Preliminary writing** of the thesis
- **Evaluation** of the thesis by the scientific coordinator.
Revision, completion, correction – intermediate draft
- **Support** within a team of specialists: advisory committee / department
- **Revision, completion, correction** – final draft
- Thesis **submission** to the members of the examination board
- **Public defence** of the thesis in front of the examination board

Documentation

Writing scientific articles/
patent proposal

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Choosing the research topic

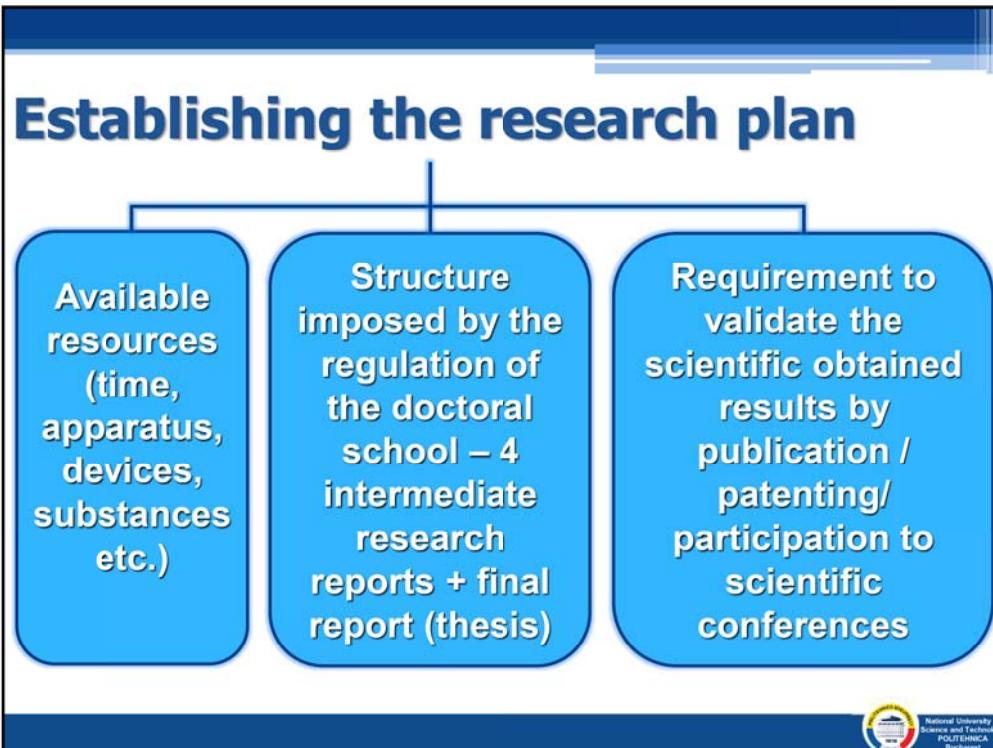
Identification of a research topic based on a (extended / up-to-date) documentation in the chosen field of research

- of actuality / interesting in the **context of the existing knowledge in the field**
- resource-feasible

It is possible to choose a research topic proposed by industrial partners/companies, etc.



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PhD thesis content

It is established:

- by consultation with the supervisor;
- according to the required format mentioned in CSUD-UPB Regulation (Article 24) – content and form.

Suggested table of content - common template -

1. Critical survey of literature data
2. Original contributions
3. Conclusion
 - General conclusion
 - Underline the original contributions
 - Prospects for further development
4. References

<https://upb.ro/wp-content/uploads/2022/11/Regulament-studii-doctorale-POLITEHNICA-Bucuresti.pdf>



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PhD thesis content

It is established:

- by consultation with the supervisor;
- according to the required format mentioned in CSUD-UPB Regulation (Article 24) – content and form.

**Suggested table of content
- article like template -**

- a. Presentation of the doctoral topics, used methods and concepts**
- b. In extenso published articles as scientific results of the thesis**
- c. Conclusion**
 - General conclusion
 - Original contributions
 - Prospects for further development
- d. References**

<https://upb.ro/wp-content/uploads/2022/11/Regulament-studii-doctorale-POLITEHNICA-Bucuresti.pdf>



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Validation of the obtained results by publication

- ORDER **5110/17.09.2018**, on the approval of national minimum criteria for PhD title awarding
- **35 Annexes – CNATDCU Committees**

<https://www.edu.ro/studii-doctorat> → Regulatory framework



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Validation of the obtained results by publication

Electrical Engineering

ORDER 5110/17.09.2018, Annex 9

Minimum criteria for PhD title awarding:

1. publication of at least two articles, on thesis theme, in journals and/or in conference proceedings indexed in Web of Science (WoS) Core Collection Thomson Reuters databases and/or in international databases;
2. accepted international databases (BDI) are: Scopus, IEEE Xplore, Elsevier Science Direct, Engineering Village, Compendex, INSPEC, Springerlink, Cabi, EBSCO, CSA ILLUMINA/PROQUEST, Index Copernicus and Urlich's;
3. the PhD student must be first author at least one article



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Validation of the obtained results by publication

Power engineering

ORDER 5110/17.09.2018, Annex 10

Minimum criteria for PhD title awarding:

1. publication of at least two articles, of which at least one in journals or conferences proceedings indexed in Web of Science (WOS) and at least one published in journal indexed in other international databases (BDI);
2. the PhD student must be first author at least one article;
3. accepted international databases (BDI) are: Scopus, IEEE Xplore, Elsevier Science Direct, Engineering Village, Compendex, INSPEC, Springerlink, Cabi, EBSCO, CSA ILLUMINA/PROQUEST, Index Copernicus, Urlich's and INIS (International Nuclear Information System).



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Validation of the obtained results by publication

Electronics, telecommunications and nanotechnology

ORDER 5110/17.09.2018, Annex 11

Minimum criteria for PhD title awarding:

1. publication of at least four articles on thesis theme, in journals and/or in conference proceedings indexed international databases (BDI);
2. at least one article on thesis theme, to be published in ISI journals OR at least two articles to be published in ISI indexed journals or conference proceedings;
3. the PhD student must be first author at least two articles;
4. accepted international databases (BDI) are: ISI, Scopus, IEEE (Institute of Electrical and Electronics Engineers) Xplore, Science Direct, Elsevier, Springerlink, ACM (Association for Computing Machinery), DBLP și EURASIP.



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Validation of the obtained results by publication

Computers, information technology and systems engineering

ORDER 5110/17.09.2018, Annex 15

Minimum criteria for PhD title awarding:

1. publication of at least three articles, in journals and/or in conference proceedings indexed Web of Science or international databases (BDI), of which:
 - a) at least two articles must be published (or accepted) in journals indexed Web of Science, and the PhD student must be first author;
 - b) one of above two articles can be replaced with a patent, the PhD student being first author



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Validation of the obtained results by publication

Mathematics

ORDER 5110/17.09.2018, Annex 1

Minimum criteria for PhD title awarding:

1. publishing or acceptance for publication (with proof of acceptance) of at least one article in journals indexed in Web of Science
2. participation and presentation of at least two scientific articles at international conferences proven by the conference program
3. publishing/acceptance of one article in ISI journals



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Validation of the obtained results by publication

Physics

ORDER 5110/17.09.2018, Annex 3

Minimum criteria for PhD title awarding:

1. publishing or acceptance for publication (with proof of acceptance) of at least two articles in ISI indexed journals, one of which may be replaced by an oral presentation at an international conference, proven by the conference program
2. the PhD student must be first author at least one articles, but not if authors are indicated in the alphabetical order and the candidate is the first author exclusively because of his name;
3. in the case of HEPP (High Energy Particle Physics) publications with a large number of authors, if the article presents an internal note mentioning the fact that the PhD student was corresponding author, then PhD student can be considered first author of the article;
4. the impact factor value of journals must be $FI \geq 0,5$.



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Validation of PhD title awarding by publications

ORDER 5110/17.09.2018, Anexul nr. 1

Minimum criteria for PhD title awarding:

1. publishing or acceptance at least two articles in international journals, or replaced by an oral communication proven by the conference.
2. the PhD student must be the first author or co-author, if other authors are indicated the first author exclusively.
3. in the case of HEP students, if there is a large number of publications note mentioning the first author, then PhD student must be the first author, then PhD student must be the first author;
4. the impact factor value of the journal where the article was published.

Important Information

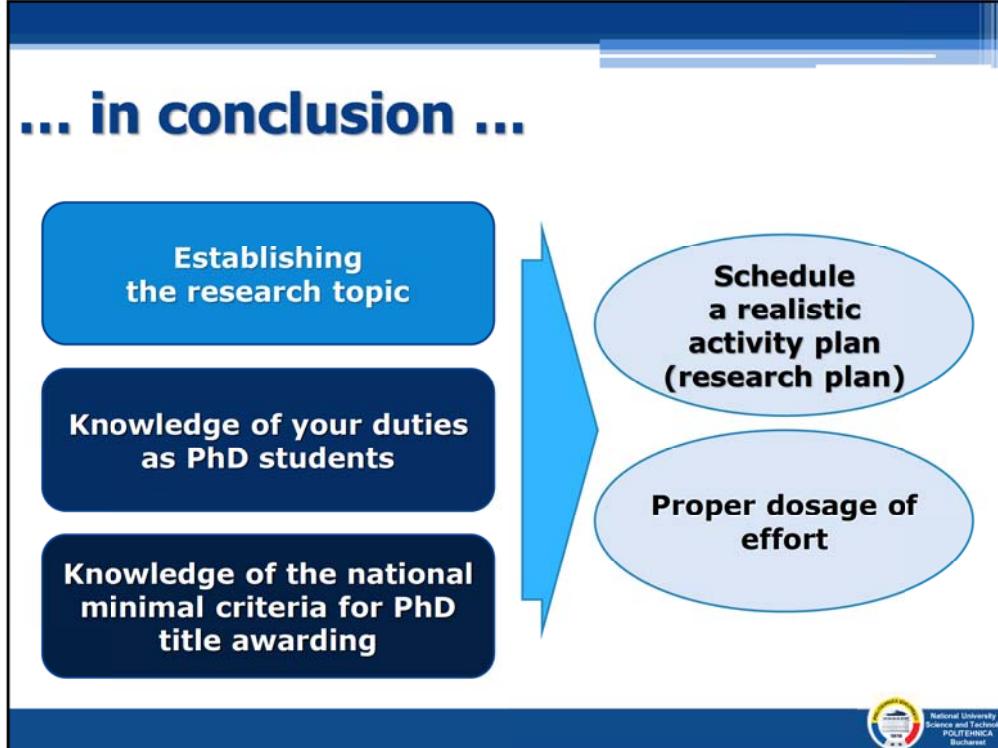
In near future these criteria are to be changed – public discussion

<https://www.edupedu.ro/oficial-ministerul-educatiei-amana-verificarea-tezelor-de-doctorat-in-anul-universitar-2024-2025-pe-baza-standardelor-din-ghidul-national-dar-si-aplicarea-noulor-standarde-nationale-minimale-pentru-a/>



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... in conclusion ...



Establishing the research topic

Knowledge of your duties as PhD students

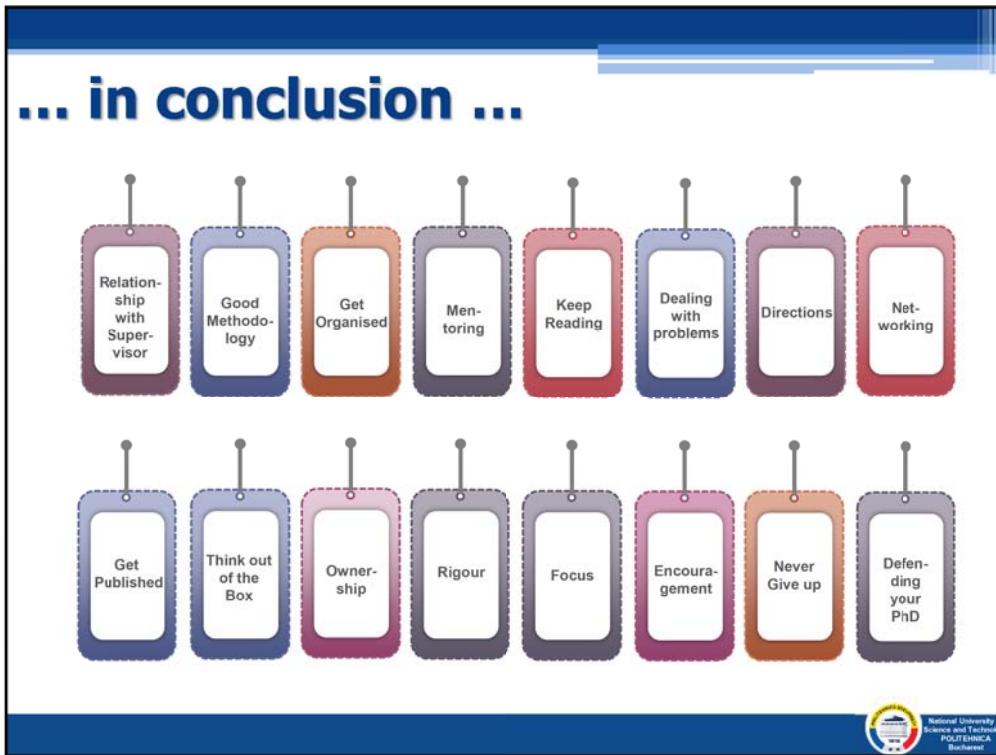
Knowledge of the national minimal criteria for PhD title awarding

Schedule a realistic activity plan (research plan)

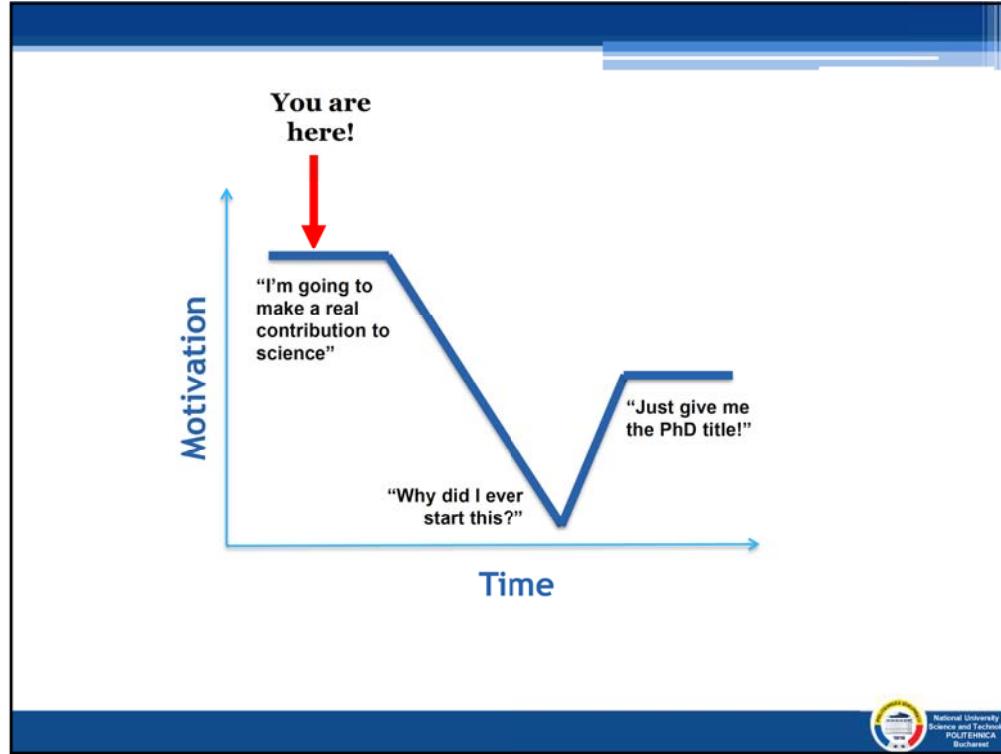
Proper dosage of effort



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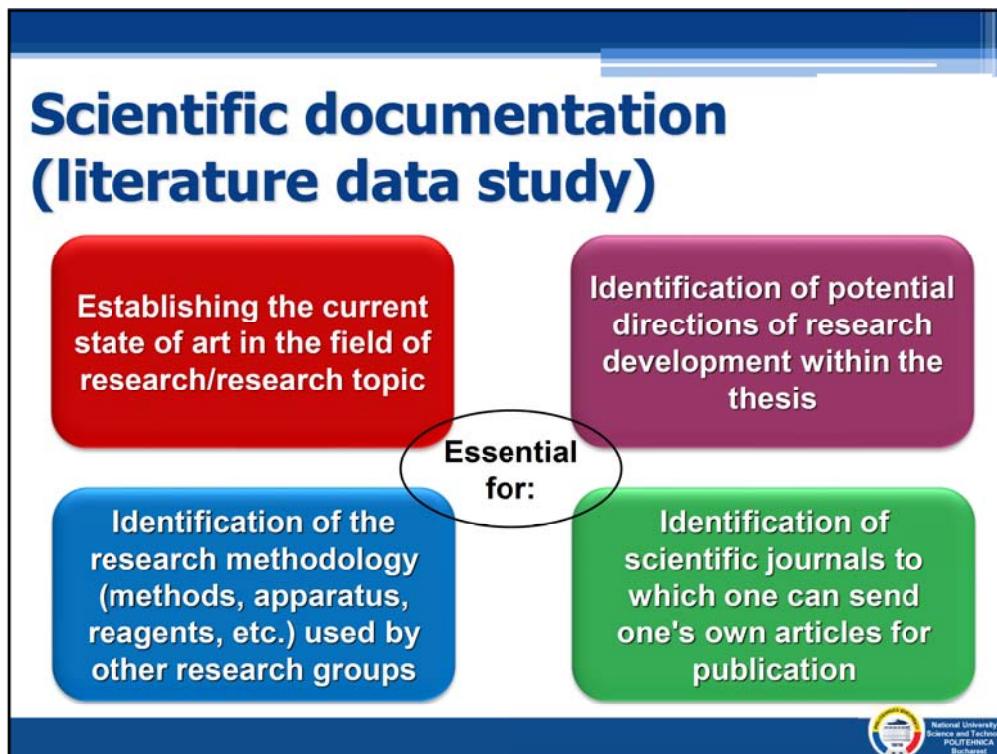
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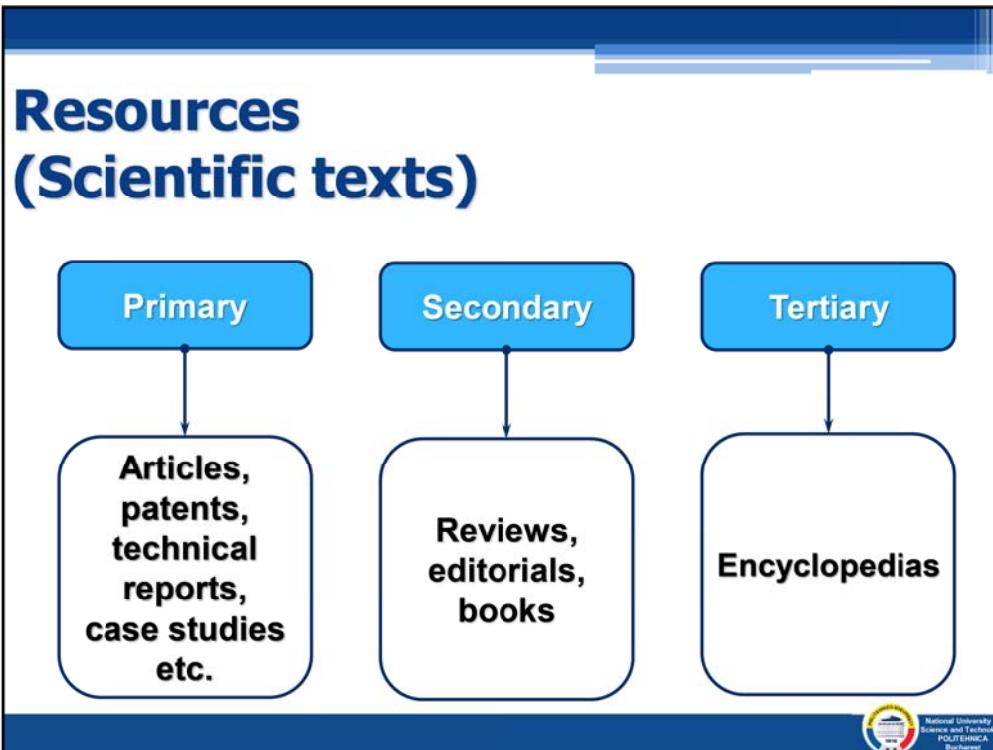
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Resources (Scientific texts)

International databases

- **Rapid documentation - references databases coupled with search engines** ⇔ **Keywords**
- **Selecting those journals to which you will be able to send for publication your scientific articles, with best chances to be read and to be cited by the international scientific community**



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Resources (Scientific texts)

Databases for mathematics and natural sciences and engineering sciences

- Elsevier Science Direct (www.sciencedirect.com)
- Scopus (www.scopus.com) provides access to biographic information and allows researchers to find out the citations of their s and to calculate the scientometric indicators (h-index), etc.
- Springer Link (<http://www.springerlink.com/journals>)
- Taylor&Francis informaworld™- (www.informaworld.com) is the platform for online journals, books and encyclopedias and databases of abstracts and indexations published by the Taylor & Francis, Routledge, Psychology Press and Informa Healthcare publishing houses.



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Resources (Scientific texts)

Databases for mathematics and natural sciences and engineering sciences

- Clarivate analytics - former ISI Web of Knowledge/ISI Thomson (<http://isiknowledge.com>) with multidisciplinary components:
 - Web of Science, provides access to the abstracts of the articles published in ISI journals
 - Journal Citation Reports, provides the complete list of ISI journals
 - Derwent Innovations Index, includes data on patents and inventions registered in 41 countries, including Romania
- Oxford Journals (www.oxfordjournals.org) - access to 211 online journals grouped in 6 disciplines, of which 125 journals are quoted ISI.



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Resources (Scientific texts)

Databases for mathematics and natural sciences and engineering sciences

- **CSA Research Pack (www.csa.com)** - database package specially created to provide researchers effective tools for project funding and for articles publishing:
 - **s Invited** - opportunities for publishing scientific articles in conferences proceedings and journals.
 - **COS Funding Opportunities** – the largest database on research grants available worldwide.
 - **Community of Scholars** – provides access to the scientific community.



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Resources (Scientific texts)

Databases for mathematics and natural sciences and engineering sciences

- **Cambridge Journals (www.journals.cambridge.org)** Cambridge University Press currently publishes over 220 academic peer-review journals grouped in 32 disciplines, of which 109 journals are ISI.
- **Wiley-Blackwell Journals (www.interscience.wiley.com)** journals published by the Wiley-Blackwell publishing group (John Wiley and Sons, Blackwell Publishing).
- **American Institute of Physics Platform (AIP) (www.aip.org)** - on-line journals of which 13 for Physics and Chemistry



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The screenshot shows a web browser window with the URL <http://www.library.pub.ro/trial.htm>. The page has a blue header with the text "Resources (Scientific texts)" and a green banner below it with the same URL. A blue arrow points to the text "Acces gratuit reviste OA - Ed De Gruyter". At the bottom right of the page is a logo for "National University of Science and Technology POLITEHNICA Bucharest".

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This screenshot is identical to the one above, but it includes a larger callout box on the right side containing detailed information about OA access:

- Jacces gratuit reviste Open Access (OA) – Ed.De Gruyter**
- Grup editorial: De Gruyter publică lucrări academice de cel mai înalt nivel, de peste 260 de ani. Localizată în Berlin, compania publică peste 750 de reviste și oferă o gamă largă de conținut digital.
- Grupul de companii include editurile De Gruyter Akademie Publishing, Birkhäuser, De Gruyter Mouton, De Gruyter Oldenbourg, De Gruyter Open și De Gruyter.
- Reviste OA din domenile: Chimie, Inginerie chimică, Științe polimernelor, Știință materialelor, Inginerie, Matematică, Fizică, Afaceri și economie, Studii culturale, Filosofie, etc.
- Link de acces: <https://www.degruyter.com/cms-volumes-vjournals>
- Modalitate de acces: accesul este posibil de la distanță, nu necesita conectare cu user și parola

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JOURNALS

Resources (Scientific texts)

ISI Journal – “a magazine for which Thomson Reuters calculates and publishes the impact factor in the Journal Citation Reports” (JCR).

Minister Order (MECTS) No. 4478/23.06.2011, published in „Monitorul Oficial”, Part I, No. 448/27.06.2011, in the "DEFINITIONS" section of ANNEX No 2

ISI indexed Journal - “an indexed journal in the Science Citation Index Expanded, Social Sciences Citation Index or Arts & Humanities Citation Index”

Minister Order (MECTS) No. 4692/29.06.2011, published in „Monitorul Oficial”, Part I, No. 540/29.VII.2011, in the "DEFINITIONS" section of ANNEX No 2

BDI indexed Journal (international databases) – ex: Scopus, Cambridge scientific abstract, Metadex etc.



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Resources

<http://mjl.clarivate.com/>

Browse, search, and explore journals indexed in the Web of Science

The Master Journal List is an invaluable tool to help you to find the right journal for your needs across multiple indices hosted on the Web of Science platform. Spanning all disciplines and regions, Web of Science Core Collection is at the heart of the Web of Science platform. Curated with care by an experienced editorial team, the Web of Science Core Collection includes only journals that demonstrate high levels of editorial rigor and best practice. As well as the Web of Science Core Collection, you can also access the following specialty collections: Biological Abstracts, BIOSIS Previews, Dentallogical Review, and Current Contents/Concurrent, as well as the Chemical Information products.

Related products

- Journal Citation Reports
- Web of Science
- EndNote



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Did you mean this journal?

REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS

Publisher: SERBAN SOLACOLU FOUNDATION, STR GHEDRESCU POLIZU NR 3, COD 011061 SECTOR 1, BUCURESTI, ROMANIA, RO-011061

ISSN: 1583-3188

Impact Factor: 0.09 (2023)

Journal Citation Indicator: 0.09 (2023)

Science Citation Index Expanded

Essential Science Indicators

Other Possible Matches

REVISTA ROMANA DE MEDICINA DE LABORATOR

Publisher: SCIENTIF. EDITORIA ZIGA SA, MARBURG, POLAND, MARZ914, 31 412

ISSN: 1585-462X

Impact Factor: 0.09 (2023)

Journal Citation Indicator: 0.09 (2023)

Science Citation Index Expanded

Essential Science Indicators

REVISTA ROMANA DE MEDICINA VETERINARA

Publisher: GENERAL ASOC ROMANA VETERINARIA, SPLAUA INDEPENDENȚEI 108, SECTOR 1, BUCURESTI, ROMANIA, RO-010007

Impact Factor: 0.09 (2023)

Journal Citation Indicator: 0.09 (2023)

Science Citation Index Expanded

Essential Science Indicators

ISI/BDI INDEXED JOURNAL

ISI journal database

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Welcome, Stefania Stoleriu

Settings Log Out

REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS

ISSN: 1583-3188

Publisher: SERBAN SOLACOLU FOUNDATION, STR GHEDRESCU POLIZU NR 3, COD 011061 SECTOR 1, BUCURESTI, ROMANIA, RO-011061

General Information

Journal Website: Visit Site

Frequency: Quarterly

Issues Per Year: 4

Country / Region: ROMANIA

Primary Language: Multi-Language

Web of Science Coverage

Collection	Index	Category	Similar Journals
Core Collection	Science Citation Index Expanded (SCIE)	Construction & Building Technology Materials Science, Multidisciplinary	Find Similar Journals
Other	Essential Science Indicators	Materials Science	Find Similar Journals

Journal Citation Indicator (JCI) **NET METRIC**

The Journal Citation Indicator is a measure of the average Category Normalized Citation Impact (CNC) of citable items (articles & reviews) published by a journal over a three year period. It is used to help you evaluate journals based on other metrics besides the Journal Impact Factor (JIF).

Year	Impact Factor
2023	0.09
2022	0.11

Categories: Construction & Building Technology | Materials Science, Multidisciplinary

Categories: Construction & Building Technology | Materials Science, Multidisciplinary

Impact factor

46

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International Journal of Engineering Research and Development

Impact Factor 4.61

IJERD is an open access peer-reviewed, interdisciplinary international platform for disseminating results of relevant research related to all the disciplines of engineering, science, technology etc. **IJERD** invites all research, review articles, short communications & technical notes that describe significant advances research in the areas of Engineering, Technology, Science & more.....

All scientific engineering research & technology area i.e. (Electrical, Electronics and Computer Engineering, Information Engineering and Technology, Mechanical, Industrial and Manufacturing Engineering, Automation and Mechatronics Engineering, Material and Chemical Engineering, Civil and Architecture Engineering, Biotechnology, Bio Engineering, Environmental Engineering, Petroleum and Mining Engineering, Marine and Agriculture engineering, Aerospace Engineering & more relevant fields).

IJERD publish papers online as well as print versions (hard copy) of the Journal.

Its publication frequency is 12 issues per year.

Date of submission for November issue

Sl. No	Process Description	Last Date	Status
1	Manuscript Submission	30 th November 2024	In Processing
2	Manuscript Review Feedback	Within 5 to 7 days	(To be Processed)
3	Date of Publication	10 th December 2024	(To be Processed)
4	Indexing & book delivering	Within 7 days	(To be Processed)

e-ISSN: 2278-067X p-ISSN: 2278-800X

Through simply mailing as an attachment & any query, mail us at "IJERD@EDITORMAILS.COM"

Website: www.ijerd.com

With Best Regards
IJERD team
International Journal of Engineering Research and Development

National University of Science and Technology POLITEHNICA Bucharest

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Web of Science Master Journal

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Master Journal List Watch Manuscript Downloads Help Center

Refine Your Search Results

INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH AND DEVELOPMENT-IJERD

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INTERNATIONAL JOURNAL OF COGNITIVE RESEARCH IN SCIENCE ENGINEERING AND EDUCATION-IJCSEEE

Find a Match

INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH IN AFRICA

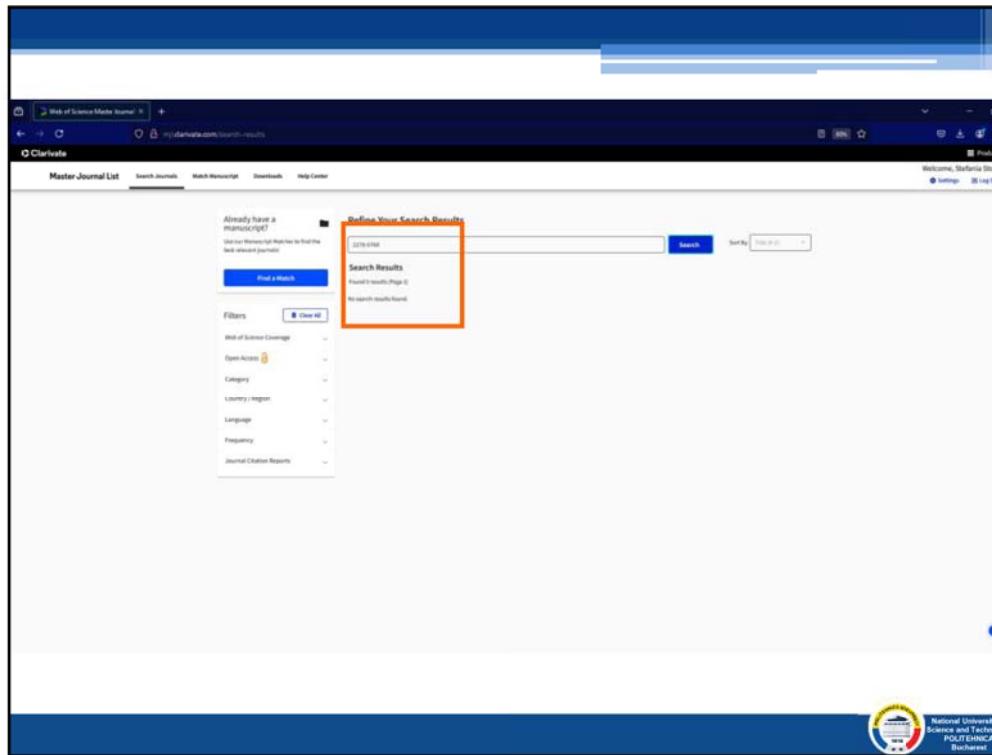
Find a Match View profile page

INTERNATIONAL JOURNAL OF MECHANICAL ENGINEERING AND ROBOTICS RESEARCH

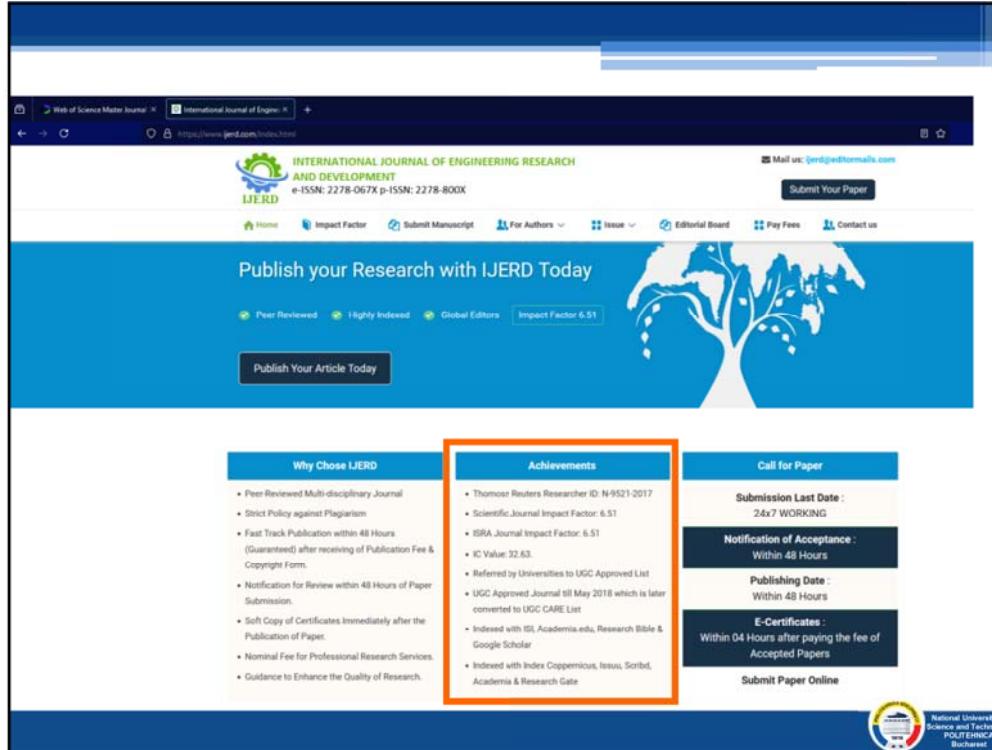
Find a Match View profile page

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This lecture support is for PhD students

from first year of study (2024-2025)

1st Serie / C.S.U.D. – POLITEHNICA Bucharest

The screenshot shows the IJERD website's publication charges page. At the top, there is a navigation bar with links for Home, Impact Factor, Submit Manuscript, For Authors, Issue, Editorial Board, Pay Fees, and Contact us. The main content area has a blue header "PUBLICATION CHARGES". Below it, a section titled "APC – Article Processing Charge includes:" lists several items. To the right, there are three links: "For Author: Call for paper", "For Author: Editorial Board", and "For Author: Author Guidelines". Further down, a section titled "Article Processing Charge (including DOI & Certificate)" contains a table:

Article Processing Charge	
For Indian Authors	700 INR
For International Author (other than India)	20 USD

Below the table, there is a note about online payment and a "Pay Now" button. To the right, there is a sidebar with journal details: Journal Frequency (Monthly), Paper Submission (Throughout the month), Acceptance Notification (Within 24 Hours), Subject Areas (Engineering, Science & Management), Publishing Model (Open Access), and Publication Fee (Rs 700 / USD 20). At the bottom right, there is a logo for National University of Science and Technology POLITEHNICA Bucharest.

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ISI or ISI indexed journals

- Journals included in **Science Citation Index Expanded (SCI-EXPANDED)**, **Social Sciences Citation Index (SSCI)** or **Arts and Humanities Citation Index (AHCI)**;
- Two types of ISI Romanian journals:
 - with calculated impact factor
 - without calculated impact factor



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<https://uefiscdi.gov.ro/scientometrie-reviste>

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Journal name	ISSN	Category	Edition	IF Quartile	All Quartile
PCI JOURNAL	0687-9672	CONSTRUCTION & BUILDING TECHNOLOGY	SCIE	Q4	Q4
Proceedings of the Institution of Civil Engineers-Civil Engineering Materials	1747-650X	CONSTRUCTION & BUILDING TECHNOLOGY	ESCI	Q3	Q3
PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-STRUCTURES AND BUILDINGS	0965-0911	CONSTRUCTION & BUILDING TECHNOLOGY	SCIE	Q3	Q3
Revista de la Construcción	0718-915X	CONSTRUCTION & BUILDING TECHNOLOGY	SCIE	Q3	Q4
Revista Ingeniería de Construcción	0718-2952	CONSTRUCTION & BUILDING TECHNOLOGY	ESCI	Q4	Q4
Revista Romana de Materiale-Romanian Journal of Materials	1583-3180	CONSTRUCTION & BUILDING TECHNOLOGY	SCIE	Q4	Q4
Road Materials and Pavement Design	1468-0629	CONSTRUCTION & BUILDING TECHNOLOGY	SCIE	Q2	Q2
Roads and Bridges-Drogi i Mosty	1643-6118	CONSTRUCTION & BUILDING TECHNOLOGY	ESCI	Q4	Q4
Russian Journal of Building Construction and Architecture	2542-0526	CONSTRUCTION & BUILDING TECHNOLOGY	ESCI	Q4	Q4
Science and Technology for the Built Environment	2374-4731	CONSTRUCTION & BUILDING TECHNOLOGY	SCIE	Q3	Q3

<https://uefiscdi.gov.ro/scientometrie-reviste>

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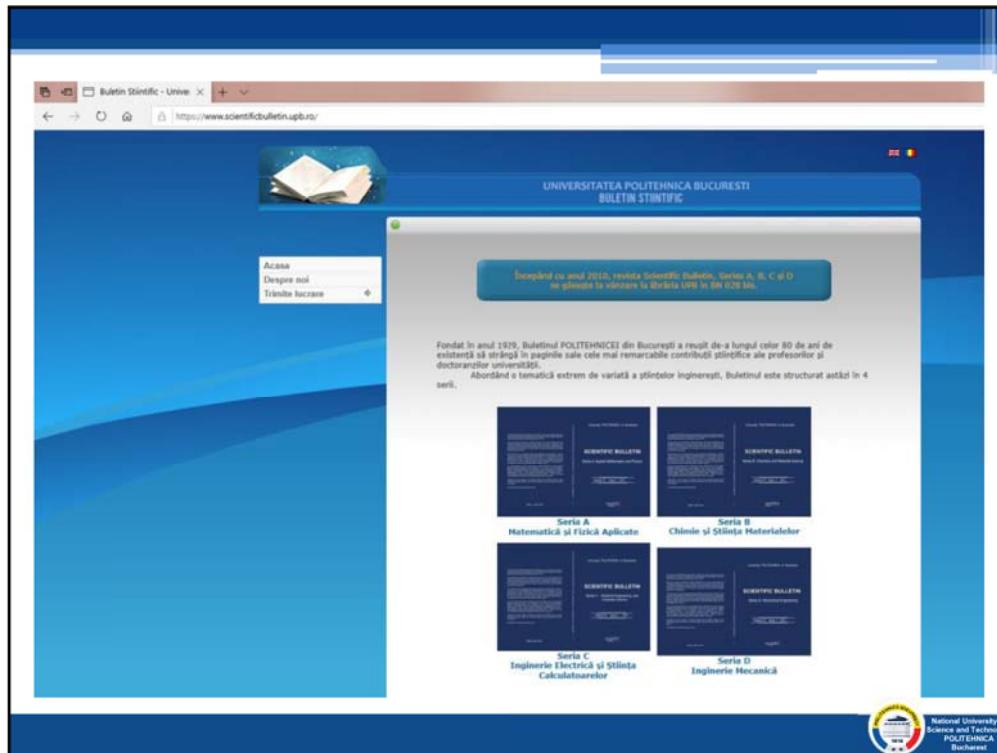
1st Lecture

Prof. S.Stoleriu

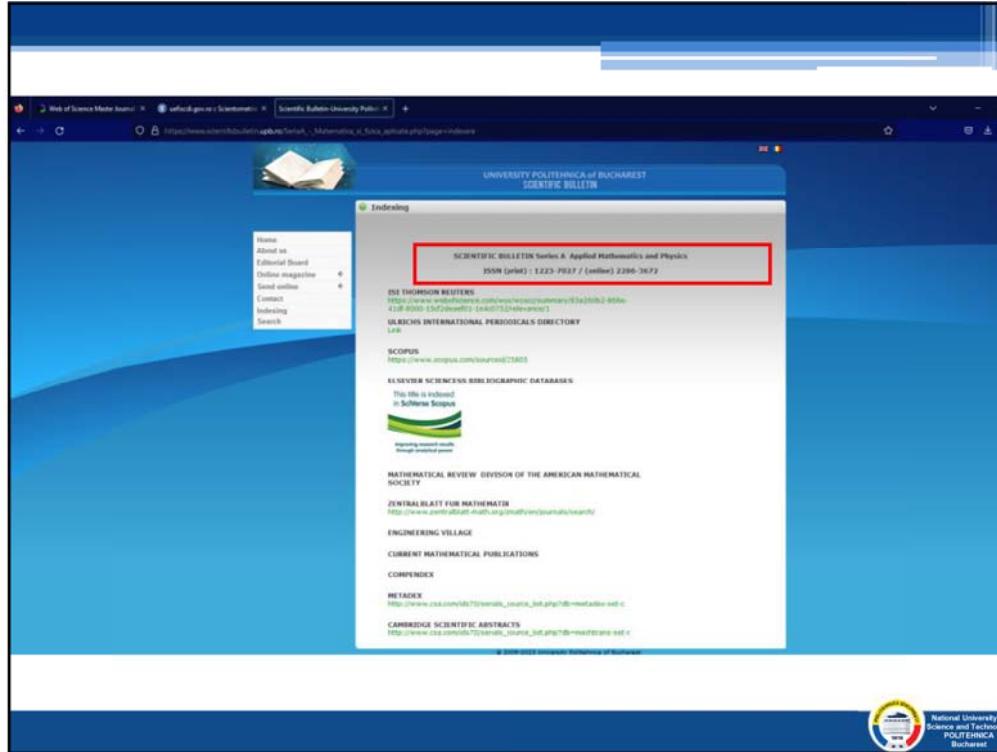
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56

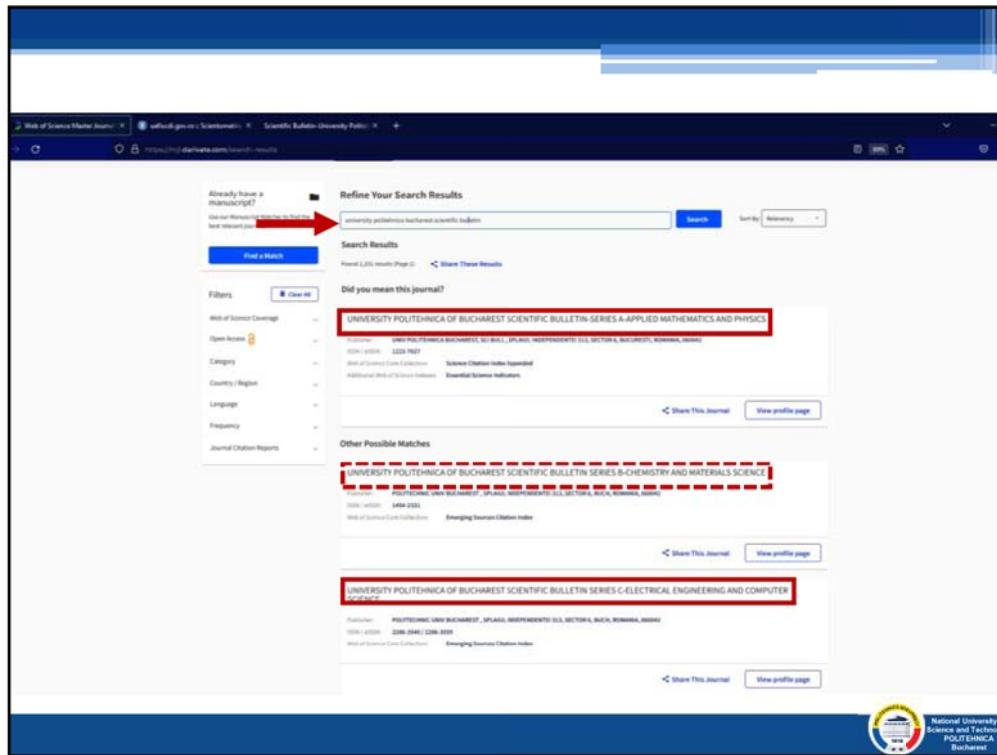
This lecture support is for PhD students
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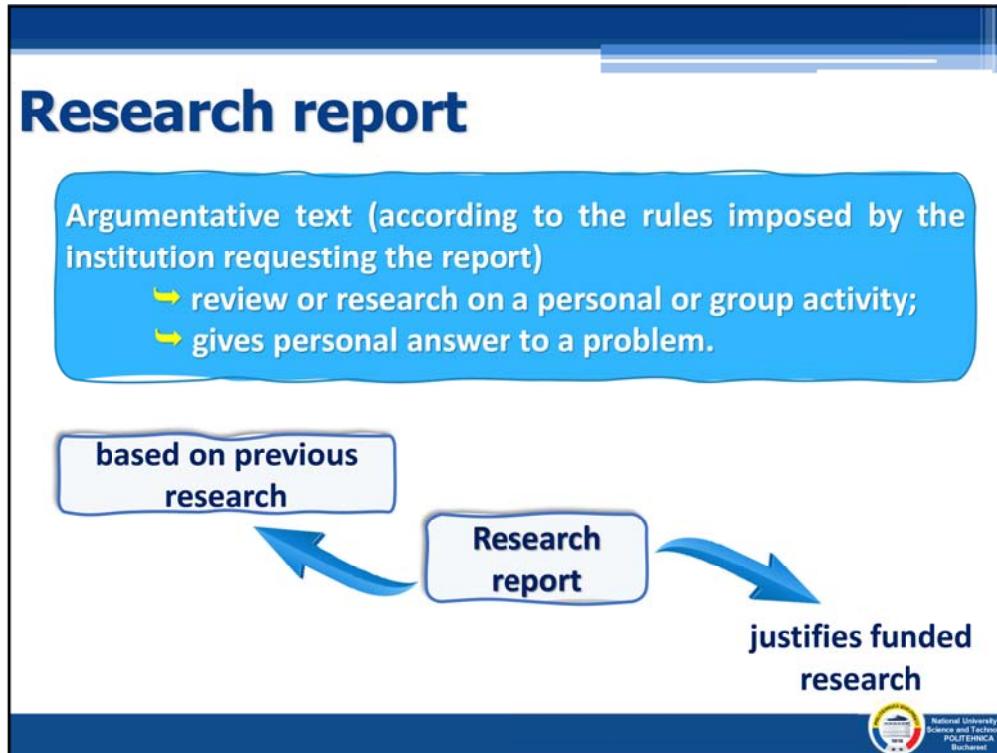
57



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Research report

- Cover and guard page
- Table of content
- Introduction
- Content
- Conclusions
- Appendices (optional)
- References
- Final file



61

Research report

- Cover and guard page
- Table of content
- Introduction
- Content
- Conclusions
- Appendices (optional)
- References
- Final file



... report identification data



62

Research report

- Cover and guard page
- Table of content**
- Introduction
- Content
- Conclusions
- Appendices (optional)
- References
- Final file

→ •○ overview the report



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Research report

- Cover and guard page
- Table of content**
- Introduction**
- Content
- Conclusions
- Appendices (optional)
- References
- Final file

→ •○ justifies the importance and the current state of art of the research theme.
•○ mentions the proposed objectives, which have been resolved in the previous stages, which have been resolved in the presented stage and which are to be addressed in the next steps.



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Research report

Cover and guard page
Table of content
Introduction
Content
Conclusions
Appendices (optional)
References
Final file



the research methodology is briefly presented, as well as the originality and value of the obtained results, and the way in which they can be used for further research.



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Research report

Cover and guard page
Table of content
Introduction
Content
Conclusions
Appendices (optional)
References
Final file



analysis of the current situation;
presentation of the idea/solution considered for the research;
working assumptions and output technology, technical variables and influence parameters;
experimental study (results, correlations, verification methods and research instruments); etc.



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Research report

Cover and guard page
Table of content
Introduction
Content
Conclusions
Appendices (optional)
References
Final file

summary of the report, highlighting the original contributions, the achievement of the initial objectives, the directions in which the researches should be continued, the problems left unresolved



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Research report

Cover and guard page
Table of content
Introduction
Content
Conclusions
Appendices (optional)
References
Final file



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Research report

- Cover and guard page
- Table of content
- Introduction
- Content
- Conclusions
- Appendices (optional)
- References
- Final file

→ used references for research report with all the elements necessary to identify the source of information.



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Research report

- Cover and guard page
- Table of content
- Introduction
- Content
- Conclusions
- Appendices (optional)
- References
- Final file



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Article publishing...

An article published in an ISI journal:

- authors **recognition** in the scientific community (especially if the article is cited)
- financial satisfaction**

The Human Resources funding program managed by UEFISCDI has a component entitled *Awarding research results* (<https://uefiscdi.ro/p1-dezvoltarea-sistemului-national-de-cd>)

For articles published in journal from **Science Citation Index Expanded** and **Social Science Citation Index**, the award is differentiated based on the impact factor.

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gov.ro/1-dezvoltarea-sistemului-national-de-cd

uefiscdi

MINISTERUL EDUCAȚIEI

FINANȚARE CDE INVATĂMÂNT SUPERIOR PROIECTE INSTITUȚIONALE COOPERAȚII ÎNTERNATIONALE DESPRE UEFISCDI

Căuta articol

Acasă Reîncarcă pagina

P1 - Dezvoltarea sistemului național de CD

Obiectivele programului:

- dezvoltarea resurselor umane, a infrastructurii și a instituțiilor de profil;
- creșterea eficienței utilizării resurselor în organizații publice, prin dezvoltarea mecanismelor de monitorizare și evaluare a calității și relevanței activităților CDE;
- creșterea atracției către cercetare prin crearea unui cadru instituțional similar cu cel al organizațiilor de cercetare din țările dezvoltate (promovare în cercere pe baze etice și de performanță);
- îmbunătățirea performanțelor grupurilor de cercetători;
- crearea și operarea Registrului național al cercetătorilor;
- modernizarea administrației publice din sectorul cercetării.

Subprograme coordonate de UEFISCDI:

SUBPROGRAMUL 1.1

Resurse umane (integral)

Clasificare subprogram

- creșterea numărului de cercetători și formarea unor generații deschise către mediu științific european și internațional, în conformitate cu obiectivele Spațiului European de Cercetare;
- creșterea atracției către cercetare prin crearea unui cadru instituțional similar cu cel al organizațiilor de cercetare din țările dezvoltate (promovare în cercere pe baze etice și de performanță);
- îmbunătățirea performanțelor grupurilor de cercetători;
- crearea și operarea Registrului național al cercetătorilor;

Instrumente de finanțare

- Proiecte de cercetare postdoctorală (PD)
- Proiecte de cercetare pentru stimularea tinerelor echipe independente (TE)
- Bursa tinerului cercetător (BT)
- Premiera recrutării cercetători-artiști (PRECART)
- Premiera recrutării cercetători-tineret (PRECUT)
- Proiecte de mobilitate pentru cercetători (MC)
- Proiecte de mobilitate pentru cercetători cu experiență din diaspora (MCD)

<https://uefiscdi.ro>

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The screenshot shows the official website of the Romanian National Authority for Scientific Research (UEFISCDI). The top navigation bar includes links for FINANȚARE CDI, ÎNVĂȚĂMÂNT SUPERIOR, PROIECTE INSTITUȚIONALE, COOPERARE INTERNATIONALĂ, and DESPRE UEFISCDI. The main content area features a banner for the premiere of research results - articles. Below this, a section titled 'Scop:' discusses the goal of increasing quality and international visibility of Romanian research. Key statistics for 2021 are displayed: 28,024,475 RON / 5,838,432 EUR in funding, 6,602 projects submitted, and 6,313 projects funded.

73

The screenshot displays a PDF document titled 'IF2021.pdf' containing a table of journals from the Science Citation Index Expanded (SCIE) and Social Sciences Citation Index (SSCI) sorted by impact factor. The table includes columns for Web of Science Category, Index, Revista (Journal Name), ISSN, eISSN, Zona (Zone), and Top. A search bar at the top right allows for filtering by journal name. A blue banner at the bottom of the table reads 'Depending on Journal Impact Factor'. The document is associated with the National University of Science and Technology POLITEHNICA Bucharest.

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Conclusion?

Journal selection for articles publication is very important !!!



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Article publishing...

Criteria for journal selection for publication of a scientific article

Targeted readers

the scientific information will be different for a journal specialized in a field versus a multi-disciplinary journal.

Visibility

“open-access” system, indexing in major databases (ex: Scopus, ISI).

Prestige and politics of the journal

reproduction permissions, color images publishing.



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Article publishing...

Criteria for journal selection for publication of a scientific article

Targeted readers	Visibility	Prestige and politics of the journal
Acceptance chances analysis of the acceptance criteria imposed by the journal; for ex. the novelty degree – for Nature, Science, JACS.	Evaluation rate important in areas where scientific information is changing rapidly.	Classification of the journal high impact factor for a better evaluation of the research activity

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Article publishing...

Criteria for journal selection for publication of a scientific article

Targeted readers	Visibility	Prestige and politics of the journal
Acceptance chances	Evaluation rate	Classification of the journal
Tools available for author on-line vs. printed version etc.	Copyright https://openpolicyfinder.jisc.ac.uk/	Personal reasons ...

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The screenshot shows the homepage of the Open Policy Finder, formerly Sherpa services. The title bar reads "Open policy finder" and "Formerly Sherpa services". Below the title, a banner says "Welcome to open policy finder" and "Helping authors and institutions to make informed and confident decisions in open access publication and compliance. Formerly Sherpa services." A search bar is present with the placeholder "Search all" and a "Search" button. Below the search bar, there are two sections: "Open access compliance and transitional agreements" with links to "Open access compliance" and "Transitional agreement look up". The footer contains the URL "https://openpolicyfinder.jisc.ac.uk/" and the logo of the National University of Science and Technology POLITEHNICA Bucharest.

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The screenshot shows the "Journal Policy" page for the "Journal of Hazardous Materials". The top navigation bar includes links for "Back to search results", "Report an error", "Journal Policy", "Open Access Compliance", "Transitional Agreement Look-up", "Journal Details", and "Record Information". The "Version:" dropdown is set to "Show all". Below this, a list of journal policies is displayed in a table format:

Status	Description
Published	Option with associated OA fees, no embargo & CC BY-NC-ND and 1 other licence
Published	Option with associated OA fees, no embargo & CC BY licence
Published	Option with funder pre-requisites, associated OA fees, no embargo & CC BY licence
Accepted	Option with no embargo & CC BY-NC-ND licence
Accepted	Option with 24 months embargo & CC BY-NC-ND licence
Accepted	Option with funder pre-requisites, 12 months embargo & CC BY-NC-ND licence
Submitted	Option with no embargo

The footer contains the URL "https://openpolicyfinder.jisc.ac.uk/" and the logo of the National University of Science and Technology POLITEHNICA Bucharest.

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Journal of Hazardous Materials

Publisher Elsevier | ISSN 0304-3894 | eISSN 1873-3336

← Back to search results Report an error

Journal Policy Open Access Compliance Transitional Agreement Lock-up Journal Details Re

Published Option with associated OA fees, no embargo & CC BY-NC-ND and 1 other licence

Version: Show all Published Accepted Submitted

Published Option with associated OA fees, no embargo & CC BY-NC-ND and 1 other licence

Published Option with associated OA fees, no embargo & CC BY licence

Published Option with funder pre-requisites, associated OA fees, no embargo & CC BY I

Accepted Option with no embargo & CC BY-NC-ND licence

Accepted Option with 24 months embargo & CC BY-NC-ND licence

Accepted Option with funder pre-requisites, 12 months embargo & CC BY-NC-ND licence

Submitted Option with no embargo

OA Fee
This option has an Open Access fee associated with it

OA Publishing
This option includes Open Access publishing

Embargo
No embargo

Licence
CC BY-NC-ND 4.0
CC BY-NC

Locations
Named Repository (PubMed Central, Research for Development Repository, ESRC Research Catalogue)
Non-Commercial Repository
Non-Commercial Website
Journal Website

Conditions
Published source must be acknowledged with citation

<https://openpolicyfinder.jisc.ac.uk/>



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Journal of Hazardous Materials

Publisher Elsevier | ISSN 0304-3894 | eISSN 1873-3336

← Back to search results Report an error

Journal Policy Open Access Compliance Transitional Agreement Lock-up Journal Details Re

Published Option with associated OA fees, no embargo & CC BY-NC-ND and 1 other licence

Version: Show all Published Accepted Submitted

Published Option with associated OA fees, no embargo & CC BY-NC-ND and 1 other licence


CC BY-NC-ND 4.0 DEED
Attribution-NonCommercial-NoDerivs 4.0 International

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See the legal code

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Licence
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CC BY-NC

Locations
Named Repository (PubMed Central, Research for Development Repository, ESRC Research Catalogue)
Non-Commercial Repository
Non-Commercial Website
Journal Website

<https://creativecommons.org/share-your-work/ccllicenses/>



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Patenting the scientific results

OSIM OFICIUL DE STAT PENTRU INVENTII SI MARCI

Law no. 64/1991 on patents and inventions
Implementing regulation for Law no. 64/1991 on patents and inventions (H.G. 547/18.06.2008).

Patents Trade marks and geographical indications Drawings and industrial models Topography of integrated circuits

Products
Procedures or
Methods

Derwent Innovation Index (from Clarivate Analytics) – database of patents and inventions registered in 41 countries (ISI Web of Knowledge)

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Patenting the scientific results

OSIM OFICIUL DE STAT PENTRU INVENTII SI MARCI

Law no. 64/1991 on patents and inventions (H.G. 547/18.06.2008).

Patents Topography of integrated circuits

Products
Procedures or
Methods

Derwent Innovation Index (from Clarivate Analytics) – database of patents and inventions registered in 41 countries (ISI Web of Knowledge)

Important
Technology transfer through Spin-off and Start-up companies

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This lecture support is for PhD students

from first year of study (2024-2025)

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Supplementary references

- G. Manolea - *Bazele cercetării creative*, Ed. AGIR, Bucureşti 2006.
- A.C. Ștreanc, M. Popescu - *Valorificarea rezultatelor cercetării din universități: proprietatea intelectuală și planul de afaceri*, Ed. Universității „Lucian Blaga”, Sibiu 2011 (available at <http://old.uefiscdi.ro/Upload/f1ea020d-8de3-4e93-b0c9-5d212651ef6c.pdf> accesat 22.11.2024)
- *About Technology Transfer and Intellectual Property Rights (IPRs)*, (available at https://ec.europa.eu/invest-in-research/policy/ipr_en.htm accesat 23.11.2024)



85

A.I. usage

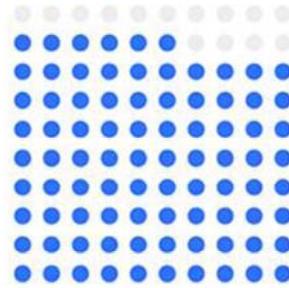
Digital Education Council Global AI Student Survey 2024 | Section 1. AI Usage

86% of students already use AI in their studies

Percentage of students using AI in their studies
Question: How often do you use AI tools?

86%

of students claim to use AI in their studies



Frequency of students using AI in their studies
Question: How often do you use AI tools?

54%

of students use AI at least on a weekly basis



<https://www.digitaleducationcouncil.com/post/digital-education-council-global-ai-student-survey-2024>

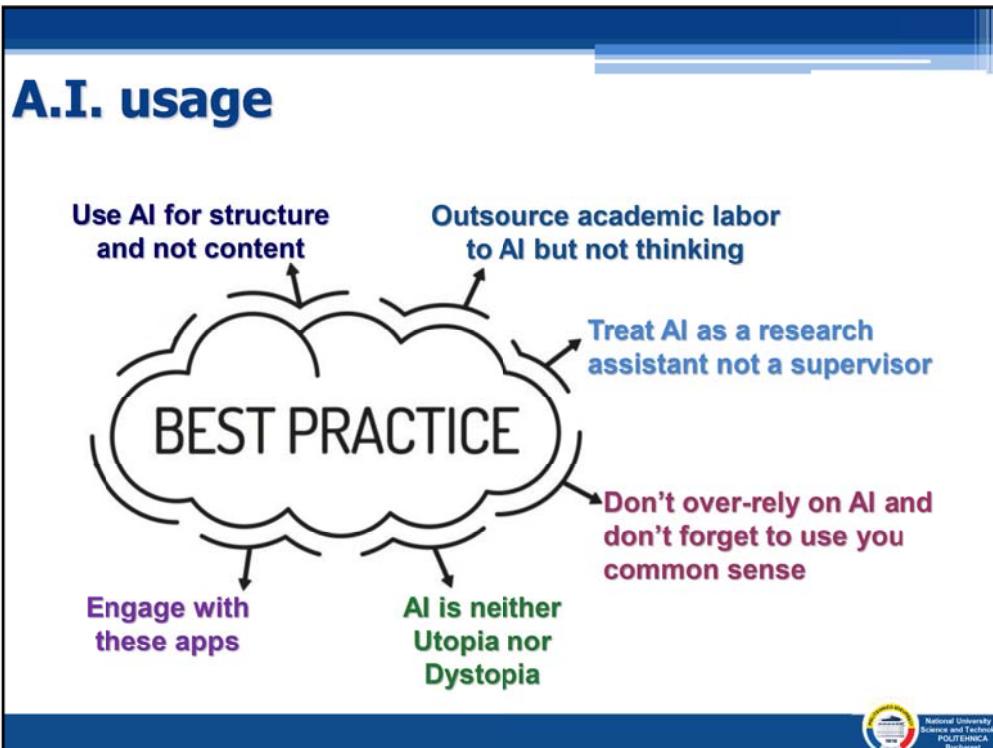


86

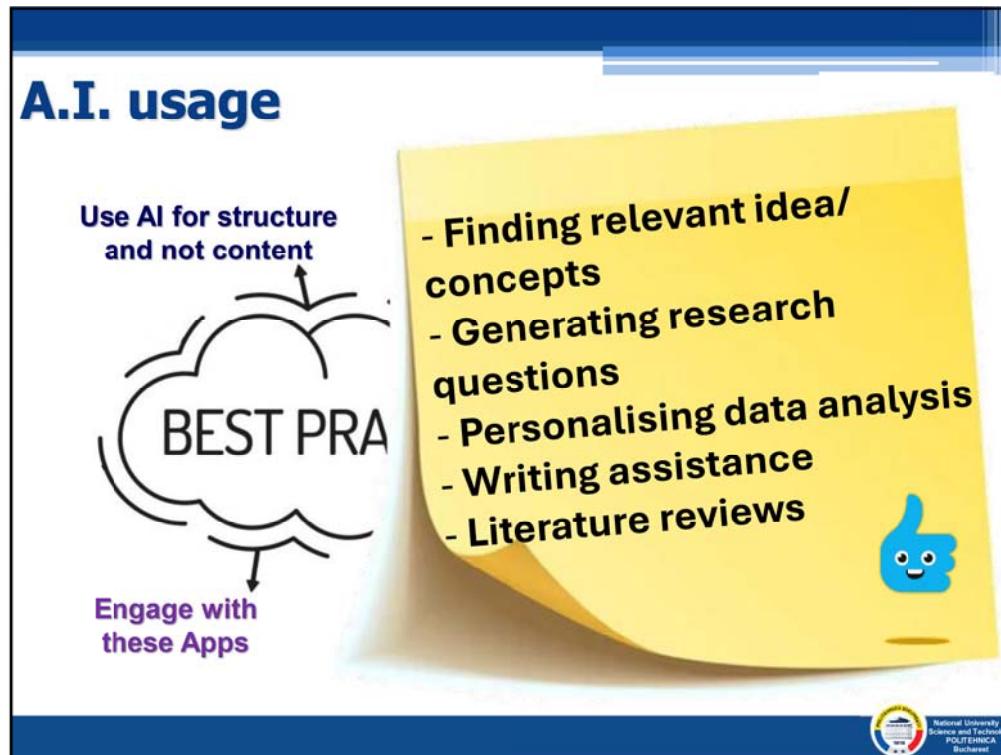
This lecture support is for PhD students

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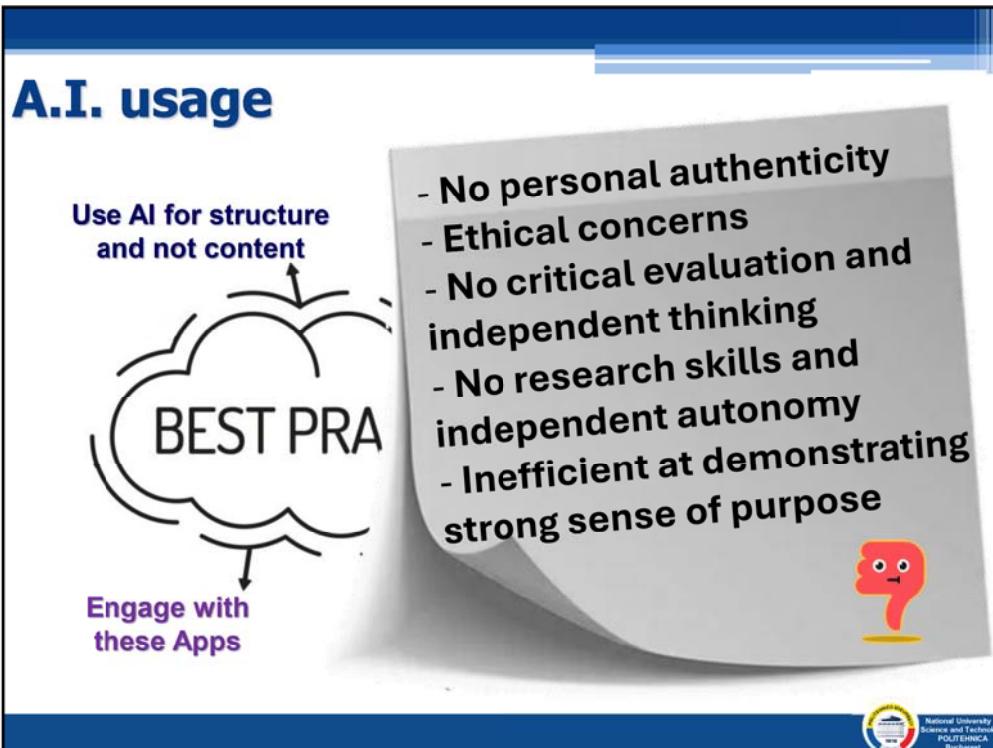
1st Serie / C.S.U.D. – POLITEHNICA Bucharest



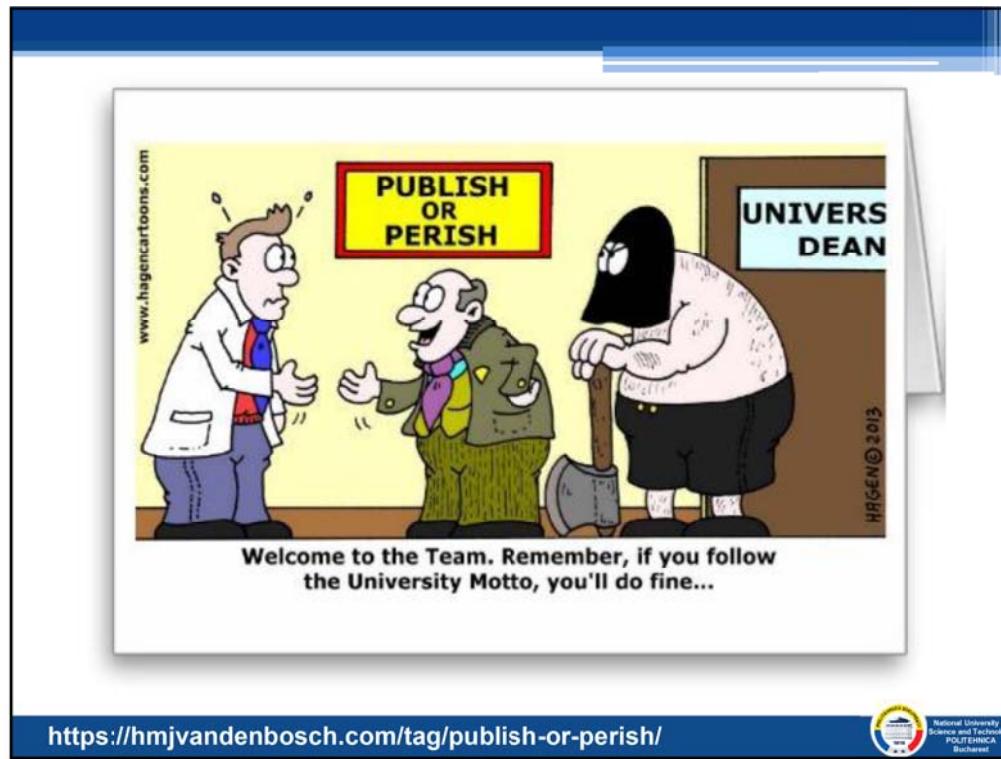
87



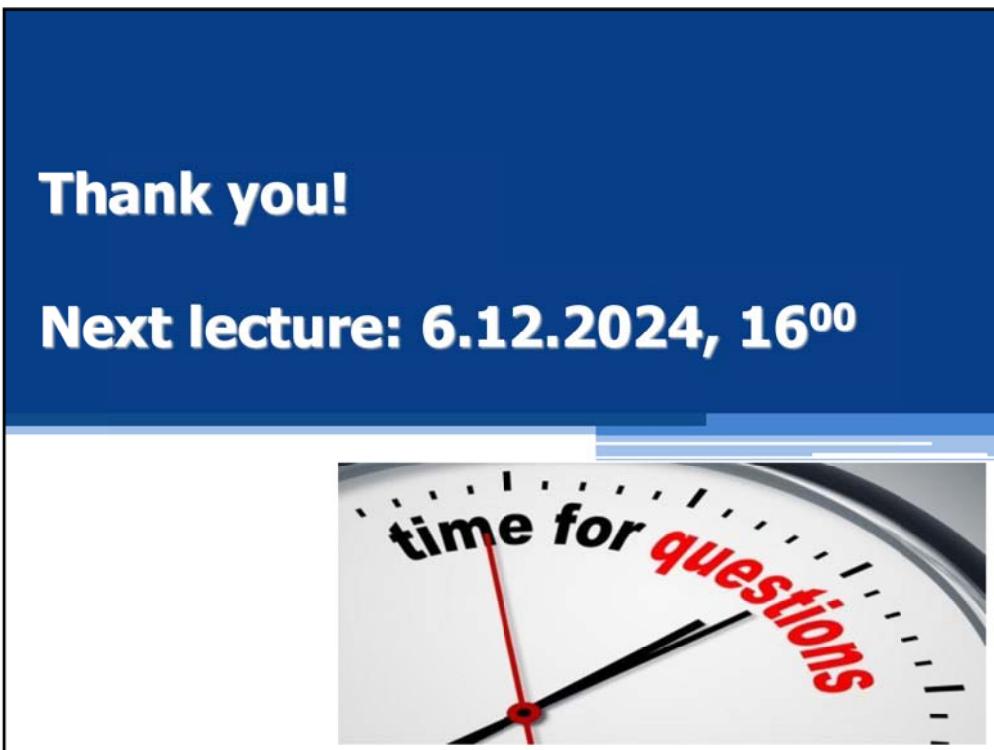
88



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How to pass this course?

Write a scientific text!



93

How to pass this course?

Write a scientific text!

Justify the novelty/originality of the research topic choosed for doctoral thesis, in the current context of state of art of the field

Requirements

- ➡ **200 – 350 words – without numbering the references words**
- ➡ **Do not forget about the citation of the references!**
- ➡ **Do not use A.I.!**



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How to pass this course?

- ➡ File (*.doc or *.pdf)
- ➡ The file will be uploaded on Moodle platform

Only in the extreme case is sent to
stefania.stoleriu@upb.ro

on the email subject write *Methodology*

➡ Deadline: **13.12.2024**

DON'T MISS
THE DEADLINE!

