

COURSE SYLLABUS

1. Information about the programme

1.1 Institution of higher education	WEST UNIVERSITY OF TIMISOARA
1.2 Faculty / Department	FACULTY OF ECONOMICS AND BUSINESS ADMINISTRATION
1.3 Department of	DOCTORAL SCHOOL OF ECONOMICS AND BUSINESS ADMINISTRATION
1.4 Area of study	ECONOMIC SCIENCES AND BUSINESS ADMINISTRATION
1.5 Level of studies	DOCTORAL STUDIES
1.6 Training/qualification	DOCTORAL STUDIES

2. Discipline data

2.1 Course name	SCIENTOMETRICS AND EVALUATION OF SCIENTIFIC RESEARCH						
2.2 Course coordinator	Prof. Lobonț Oana Ramona PhD habil.						
2.3 Seminar coordinator	Prof. Lobonț Oana Ramona PhD habil.						
2.5 Year of study	I	2.6 Semester	I	2.7 Type of assessment	E	2.8 Type of discipline	C

3. Total estimated time (hours of teaching per semester)

3. Total estimated time (hours of teaching per semester)					
3.1 Number of hours per week	3	course	2	workshops	1
3.2 Total hours in the curriculum	36	course	24	workshops	12
3.3 Distribution of time:					hours
Study based on Instructions, course materials, bibliography and notes					66
Additional documentation library, specialized electronic platforms / field					50
Training seminars / laboratories, homework, essays, portfolios and essays					28
Other activities.....					-
3.4 Total hours of private study	144				
3.5 Tutoring	-				
3.6 Examinations	20				
3.7 Total hours per semester	200				
3.8 Number of credits	8				

4. Prerequisites (where applicable)

4.1 curriculum - based	- Acquiring fundamental knowledge, following the compulsory disciplines in the curriculum for the bachelor and master's cycle: 'Academic Writing' and Research 'Ethics' - The PhD students will enroll in the guidance of the PhD coordinator in accordance with the individual "Scientific research program"
4.2 competence based	Collecting, analyzing and interpreting data and information related to scientific aspects, using scientific methods to capitalize on the results of scientific research

5. Conditions (where applicable)

5.1 for lectures	• a percentage of minimum 80% attendance for the course activity; • Online Teaching (55%), via: ⇒ e-learning platform, Moodle type, at the address: https://elearning.e-uvv.ro - on the specific page of the discipline, the course support is uploaded, as well as other bibliographic materials in electronic format, in special sections created within the course page ⇒ video conferencing application: Google Meet, at: https://meet.google.com - access through the exclusive use of institutional e-mail to attend lectures (courses and seminars); • Face-to-face teaching (45%), via: ⇒ meetings scheduled according to the schedule • Material base/technical conditions (computer/laptop/ notebook with functional webcam, stable Internet connection).
5.2 for seminars	• a percentage of minimum 80% attendance for the seminar activity; • Online Teaching (55%), via: ⇒ e-learning platform, Moodle type, at the address: https://elearning.e-uvv.ro - on the specific page of the discipline, the course support is uploaded, as well as other bibliographic materials in electronic format, in special sections created within the course page ⇒ video conferencing application: Google Meet, at: https://meet.google.com - access through the exclusive use of institutional e-mail to attend lectures (courses and seminars); • Face-to-face teaching (45%), via: ⇒ meetings scheduled according to the schedule • Material base/technical conditions (computer/laptop/ notebook with functional webcam, stable Internet connection).

6. Objectives of the discipline - expected learning outcomes to the formation of which the completion and promotion of the discipline contribute

Knowledge	C1. Familiarity with current directions in leading research in the specific fields of economics and business administration C2. Knowledge of typologies of research methodologies and their critical analysis C3. Knowledge of advanced data analysis software packages C7. Knowledge of academic collaboration and collegial learning C8. Knowledge of the organization of the academic research environment and research-related activities C9. Knowledge of scientific communication and the norms of national or international conferences
-----------	---

Skills	A1.2. Appropriate selection of specialized literature A1.3. Critical analysis and synthesis of specialized literature A2.1. Developing advanced empirical research methodological design skills A2.2. Developing skills in the construction and validation of research instruments A2.3. Developing data collection skills A3.1. Appropriate use of given processing software packages A7. Giving and receiving constructive feedback A8.1. Developing mentoring, teaching and assessment skills A8.2. Developing academic management skills and career counseling A9. Development of presentation and argumentation skills (dissemination of scientific results)
Responsibility and autonomy	RA1.1. Autonomy in building the conceptual-theoretical framework for the specific subject of the doctoral thesis RA1.2. Autonomy in defining a current research direction RA2.1. Autonomous initiation of own research, with a research model suitable for the targeted objectives RA2.2. Autonomy in evaluating research methods RA3.1. Autonomy in the use of software packages LO3.2. Autonomy in querying databases RA7.1. Responsibility in collegial collaboration within research teams LO7.2. Assuming the role of co-responsible in the team RA8.1. Responsibilities in carrying out independent work, with the integration of feedback from students or the scientific leader / supervisor RA8.2. Involvement and assumption of responsibilities in the academic community RA9.1. Autonomy in presenting own research RA9.2. Responsibility in the dissemination of results

7. Contents

7.1 Lectures	Teaching methods	Comments
1. Professional responsibility in reporting and evaluating scientific research activity	Interactive lectures / Debate / Exposition: description, explanations, practical examples, demonstrations, case studies	Presentation of the topics, objectives, and methods regarding the problem of reporting the research activity 2 hours
2. Practices in the academic environment regarding scientific production	Interactive lectures / Debate / Exposition: description, explanations, practical examples, demonstrations, case studies	Delimitation of the sources of qualified knowledge, dependent on the domain of the sources with trusted (academic) degrees assigned 2 hours
3. Scientometric analysis regarding the originality of research results and scientific papers	Interactive lectures / Debate / Exposition: description, explanations, practical examples, demonstrations, case studies	Presentation of the set of methods for measuring the production and dissemination of the scientific knowledge for the quantitative analysis of the science 2 hours
4. The relevance of bibliometric analyzes	Interactive lectures / Debate / Exposition: description, explanations, practical	Evaluation of the scientific contribution of the authors, magazines or specific works, as well as the analysis of the process of dissemination of scientific knowledge

	examples, demonstrations, case studies	Analyze VosViewer 4 hours
5. Methodological principles and specific methods regarding the modalities of collecting the information involved in the activity of reporting the results and the impact of the research	Interactive Lectures and Practical Examples, Alert Settings Demonstrations, and Field-Weighted Citation Impact Template Measurements	Citations analysis, including alert settings Analysis of social networks Content analysis and text extraction 4 hours
6. Journal-specific bibliometric indicators (Journal-level Bibliometric)	Practical examples and demonstrations using the Web of Science platforms for Journal Citation Reports ranks journals and Scopus for Scimago Journal & Country Rank and Journal Metrics (CiteScore) and Eigenfactor tool	Specific metrics for indexed journals Web of Science, SCOPUS and other indexations (Impact Factor Immediacy Index Cited / citing half-life Eigenfactor, Source Normalized Impact for Paper (SNIP) SCImago Journal Ranking (SJR) CiteScore, Google Scholar Metrics) 4 hours
7. Author-level bibliometric indicators	Practical examples and demonstrations using PoP software versions, Publish or Perish	Author-specific metrics: The Hirsch Index - The h-index, with its variations g-index and m-index 2 hours
8. Article-level Bibliometric indicators	Practical examples and demonstrations using the Clarivate Analytics - Web of Science Core Collection: How to do a Cited Reference Search	Metrics specific to articles indexed by Web of Science, SCOPUS and other indexes (Science Citation Index (SCI), Social Science Index Citation (SSCI) and Citation Art & Humanities Index (A & HCI). Emerging Sources Citation Index (ESCI), Scopus, Google Scholar), Citation alerts 2 hours
9. Bibliometric indicators specific to institutional performance management in research (Institution-level Bibliometric)	Practical examples, demonstrations, discussions based on case studies using SciVal software modules, a subscription-based research performance evaluation tool	Evaluation, financing and classification of universities: • Academic Ranking of World Universities, • CWS Leiden Ranking, • QS World University Rankings, • Scimago Institutions Rankings, • THE World University Rankings, • Webometrics Ranking of World Universities 2 hours
References - Adams J., McVeigh M., Pendlebury D. and Szomszor M., (2019), Profiles, not metrics, About Web of Science, Clarivate Analytics, https://clarivate.com/wp-content/uploads/dlm_uploads/2019/01/WOS_ISI_Report_ProfilesNotMetrics_008.pdf - Bornmann, L and Haunschild, R. (2018). Plots for visualizing paper impact and journal impact of single researchers in a single graph. Scientometrics, 115, 385-394. DOI https://doi.org/10.1007/s11192-018-2658-1 - Ariely, D. (2012). Adevărul (cinstit) despre necinste. Cum îi mințim pe toți dar mai ales pe noi înșine. București: Editura Publica; , available at http://www.ted.com/talks/dan_ariely_on_our_buggy_moral_code - Babbie, E. R. (2015). The practice of social research: Nelson Education, disponibil la adresa web http://jsp.ruixing.cc/jpkc_xingfa/JC_Data/JC_Edt/lnk/20161105194206236.pdf		

5. Leiden Manifesto, disponibil la adresa web <http://sti2014.cwts.nl> (Hics, D. et al. The Leiden Manifesto for research metrics. Nature, 2015, 520:429-431. DOI: 10.1038/520429a)
6. Nalimov V.V., Mulchenko Z.M (1969): Naukometriya. Izuchenie Razvitiya Nauki kak Informatsionnogo Protsessa. [Scientometrics. Study of the Development of Science as an Information Process], Nauka, Moscow, (English translation: 1971. Washington, D.C.: Foreign Technology Division. U.S. Air Force Systems Command, Wright-Patterson AFB, Ohio. (NTIS Report No.AD735-634).
7. Pritchard A. (1969): Statistical bibliography or bibliometrics. In: Journal of Documentation. 1969, 25 (4): 348-349)
8. Santos, B.S., Silva, I., Lima, L. Takako, P., Gisliany Alves, E., & Marcel da Câmara Ribeiro-Dantas (2022). Discovering temporal scientometric knowledge in COVID-19 scholarly production. Scientometrics 127, 1609–1642, <https://doi.org/10.1007/s11192-021-04260-y>
9. University of Pittsburg, Bibliometric indicators of impact, <https://pitt.libguides.com/bibliometricIndicators/ArticleLevelMetrics>
10. Wang, J. (2013). Citation time window choice for research impact evaluation. Scientometrics, 94, 851–872. doi: 10.1007/s11192-012-0775-9

Bibliometric and scientometric databases:

1. Elsevier webpage, available at <https://www.elsevier.com/>
2. IntechOpen webpage, , available at <https://www.intechopen.com/books/scientometrics>
3. SCOPUS webpage, , available at <https://www.scopus.com/home.uri>
4. UEFISCDI webpage, , available at <https://uefiscdi.ro/scientometrie-baze-de-date>
5. Web of Science webpage, , available at <https://login.webofknowledge.com>
6. Publish or Perish, Harzing.com, available at <https://harzing.com/resources/publish-or-perish>
7. Google scholar web search engine, available at <https://scholar.google.com/>
8. Scientometrics. An International Journal for all Quantitative Aspects of the Science of Science, Communication in Science and Science Policy, <https://www.springer.com/journal/11192>

Databases:

- OECD work on scientometrics and bibliometrics, available at <https://www.oecd.org/sti/inno/scientometrics.htm>
- World Bank Research Observer, available at <https://www.scijournal.org/impact-factor-of-world-bank-research-observer.shtml>
- Eurostat Science, technology and innovation, available at <https://ec.europa.eu/eurostat/web/science-technology-innovation/data/database>

7.2 Seminar	Metode de predare	Observații
1. The relevance of bibliometric analyzes	Interactive lectures / Debate / Exposition: description, explanations, practical examples, demonstrations, case studies	Evaluation of the scientific contribution of the authors, magazines or specific works, as well as the analysis of the process of dissemination of scientific knowledge Analyze VosViewer 4 hours
2. The Relevance of systematic review	Interactive lectures / Debate / Exposition: description, explanations, practical examples, demonstrations, case studies	Evaluarea tudii efectuate pe subiecte de cercetare similare. Analiza Sistematică în Web of Science 2 hours
3. Author-level Bibliometrics	Practical examples and demonstrations using various platforms Google Scholar, Scopus, Web of Science	Author-specific metrics: The Hirsch Index 2 hours
4. Reporting the scientific activity of doctoral students	Practical examples and demonstrations considering the	Simulations to complete List of scientific articles and other research results obtained in the

	institutional and national regulations in force	scientific activity, correlated with the national minimum standards for being awarded a doctoral degree and the standards and qualifications for awarding of the doctorate degree within the field of Economic Sciences and Business Administration 4 hours
Bibliography - VOSviewer, Web of Science, Scopus, Google Scholar platforms - Regulations, methodologies, procedures updated up to date		

8. Corroboration of the course contents with the epistemic expectations of the community representative, professional associations and representative employers of the programme itself.

- The content of the discipline responds to the deontological requirements of the doctoral researches in economics defined / addressed at national and international level, constituting premises for the development of the professional and academic competences of the PhD students.
- The content of the discipline is corroborated with the content of similar disciplines taught in other university centres, with the structure and content of the disciplines taught at Romanian universities, but also at other European universities.

9. Evaluation

Type of activity	9.1 Evaluation criteria	9.2 Evaluation methods	9.3 Percentage in the final grade
9.4. Lectures	Assessment both during the semester and the end of the semester on the correct acquisition and understanding of the issues covered during the course	Frequency of interaction during classes: active participation	100%
9.5 Seminar	Assessment both during the semester and the end of the semester on the correct acquisition and understanding of the issues covered during the seminar	Frequency of interaction during classes: active participation Completing the portfolio of activities	100%
9.6 Minimum performance standards			
• Active contribution of doctoral students in identifying the most relevant opportunities to report the results of the research activity - proving the understanding of the phenomena taught and debated in the course and seminar activities in a proportion of at least 80%			

Date of submission:
22.09.2025.

Course Coordinator:
Prof. Lobonț Oana Ramona, Ph.D. habil.

Signature:

Date of approval in SDEEA:
23.09.2025.

Head of SDEEA:
Prof. Stefea Petru, Ph.D.

Signature:

