

SYLLABUS

1. Information on the study programme

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1.1. Higher education institution	West University of Timisoara
1.2. Faculty	Mathematics and Computer Science
1.3. Department	Computer Science
1.4. Study program field	Computer Science
1.5. Study cycle	postgraduate
1.6. Study programme	Artificial Intelligence and Distributed Computing

2. Information on the course

2.1. Course title			Research practice			
2.2. Lecture instructo	r		-			
2.3. Seminar / labora	tory in	nstructor	Pro	f. Dr. Dana Petcu		
2.4. Study year	2	2.5. Semester	2	2.6. Examination type	C 2.7. Course type	M

3. Estimated study time (number of hours per semester)

5. Estimated study time (number	or nours p	CI	schiester)				
3.1. Attendance hours per week	3		out of which: 3.2	-	3.3. seminar /	3	
			lecture		laboratory		
3.4. Attendance hours per semeste	r 42	2	out of which: 3.5	-	3.6. seminar /	42	
			lecture		laboratory		
Distribution of the allocated am	ount of tin	ne*				hours	
Study of literature, course	handbook	an	d personal notes			35	
Supplementary document	Supplementary documentation at library or using electronic repositories						
Preparing for laboratories, homework, reports etc.						20	
Exams						7	
Tutoring						6	
Other activities	Other activities 0						
3.7. Total number of hours of 93						·	
individual study							
3.8. Total number of hours per	al number of hours per 135						
semester							
3.9. Number of credits (ECTS) 8							

4. Prerequisites (if it is the case)

4.1. curriculum	-
4.2. competences	-

5. Requirements (if it is the case)

5.1. for the lecture	-						
5.2. for the seminar / laboratory	On-line,	Google	Meet,	digital	materials	available	at
	https://staff.fmi.uvt.ro/~dana.petcu/researchpractice.htm						



6. Specific acquired competences

Professional competences	Ability to prepare and conduct a research plan
Troressional competences	Ability to collect and prepare a synthesis of relevant
	bibliographical resources
Transversal competences	Ability to prepare a report
	Ability to prepare a presentation

7. Course objectives

7.1. General objective	Acquire the knowledge necessary to handle a research activity
7.2. Specific objectives	Apply the knowledge about research activities to the master
	dissertation thesis

8. Content

8.1. Lecture	Teaching methods	Remarks, details				
Recommended literature						
8.2. Seminar / laboratory	Teaching methods	Remarks, details				
Seminar 1: Scientometrics and key performance	Presentation,	https://staff.fmi.uvt.ro/~dana.petcu/				
indications	Conversation, Examples	seminar/Scientometrics.pdf				
Seminar 2: Evaluation of individual research	Presentation,	https://staff.fmi.uvt.ro/~dana.petcu/				
results in Romania	Conversation, Examples	seminar/EvalIndivid.pdf				
Seminar 3: Evaluation of institutional research	Presentation,	https://staff.fmi.uvt.ro/~dana.petcu/				
results in Romania	Conversation, Examples	seminar/EvalInstitute.pdf				
Seminar 4: Evaluation of research activities	Presentation,	https://staff.fmi.uvt.ro/~dana.petcu/				
around the globe	Conversation, Examples	seminar/EvalGlobe.pdf				
Seminar 5: Software tools supporting research	Presentation,	https://staff.fmi.uvt.ro/~dana.petcu/				
activities: information gathering	Conversation, Examples	seminar/ToolsForInformationGath ering.pdf				
Seminar 6: Software tools supporting research	Presentation,	https://staff.fmi.uvt.ro/~dana.petcu/				
activities: activity reporting	Conversation, Examples	seminar/ToolsForActivityReportin g.pdf				
Seminar 7: Software tools supporting research	Presentation,	https://staff.fmi.uvt.ro/~dana.petcu/				
activities: impact measurement	Conversation, Examples	seminar/ToolsForImpactMeasuring .pdf				
Seminar 8: Proof-of-concept versus production:	Presentation,	https://staff.fmi.uvt.ro/~dana.petcu/				
technological readiness levels	Conversation, Examples	seminar/TRL.pdf				
Seminar 9: Research project management	Presentation,	https://staff.fmi.uvt.ro/~dana.petcu/				
	Conversation, Examples	seminar/ProjectManagement.pdf				
Seminar 10: Ethics in research	Presentation,	https://staff.fmi.uvt.ro/~dana.petcu/				
	Conversation, Examples	seminar/EthicsInResearch.pdf				



Seminar 11: Collaborative research activities	Presentation, Conversation, Examples	https://staff.fmi.uvt.ro/~dana.petcu/seminar/Collaborative.pdf
Seminar 12: Intellectual property rights of research result	Presentation, Conversation, Examples	https://staff.fmi.uvt.ro/~dana.petcu/seminar/IPR.pdf
Seminar 13: Publications versus Patents	Presentation, Conversation, Examples	https://staff.fmi.uvt.ro/~dana.petcu/seminar/PublicationVsPatent.pdf

Recommended literature

- 1. Peter Vinkler, The Evaluation of Research by Scientometric Indicators, ISBN 9781843345725, 2010
- 2. Olivier Le Deuff, "The New Metrics: From Scientometrics to Webometrics," in *Digital Humanities: History and Development*, Wiley, 2018, pp.101-111, doi: 10.1002/9781119308195.ch9
- 3. M. Gunter and M. Gisler, "Intellectual properties as intangible goods," *Proceedings of the 33rd Annual Hawaii International Conference on System Sciences*, Maui, HI, USA, 2000, pp. 10 pp.-. doi: 10.1109/HICSS.2000.927024

9. Correlations between the content of the course and the requirements of the professional field and relevant employers.

10. Evaluation

Activity	10.1. Assessment criteria	10.2. Assessment methods	10.3. Weight in the final mark			
10.4. Lecture						
10.5. Seminar / laboratory	The students should prepare during the semester a research paper based on their master thesis	Oral examination	50%			
	The students should write software tool for research reporting/ collections, implementing the principles discussed during the seminar	Oral examination	50%			
10.6. Minimum needed performance for passing						

Date of completion Signature (lecture instructor) Signature (seminar instructor)

Prof. Dr. Dana Petcu

Date of approval Signature (director of the department)

General understanding of a research activity