

SYLLABUS

1. Information on the study programme

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 instructor	-						
2.3. Seminar / laboratory instructor	Prof. 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)

3.1. Attendance hours per week	3	out of which: 3.2 lecture	-	3.3. seminar / laboratory	3
3.4. Attendance hours per semester	42	out of which: 3.5 lecture	-	3.6. seminar / laboratory	42
Distribution of the allocated amount of time*					hours
Study of literature, course handbook and personal notes					35
Supplementary documentation at library or using electronic repositories					25
Preparing for laboratories, homework, reports etc.					20
Exams					7
Tutoring					6
Other activities...					0
3.7. Total number of hours of individual study	93				
3.8. Total number of hours per semester	135				
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	Laboratory with video projector and PCs

6. Specific acquired competences

Professional competences	<ul style="list-style-type: none"> • Ability to prepare and conduct a research plan • Ability to collect and prepare a synthesis of relevant bibliographical resources
Transversal competences	<ul style="list-style-type: none"> • Ability to prepare a report • Ability to prepare a presentation

7. Course objectives

7.1. General objective	<ul style="list-style-type: none"> • Acquire the knowledge necessary to handle a research activity
7.2. Specific objectives	<ul style="list-style-type: none"> • 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 indications	Presentation, Conversation, Examples	
Seminar 2: Evaluation of individual research results in Romania	Presentation, Conversation, Examples	
Seminar 3: Evaluation of institutional research results in Romania	Presentation, Conversation, Examples	
Seminar 4: Evaluation of research activities around the globe	Presentation, Conversation, Examples	
Seminar 5: Software tools supporting research activities: information gathering	Presentation, Conversation, Examples	
Seminar 6: Software tools supporting research activities: activity reporting	Presentation, Conversation, Examples	
Seminar 7: Software tools supporting research activities: impact measurement	Presentation, Conversation, Examples	
Seminar 8: Proof-of-concept versus production: technological readiness levels	Presentation, Conversation, Examples	
Seminar 9: Research project management	Presentation, Conversation, Examples	
Seminar 10: Ethics in research	Presentation, Conversation, Examples	
Seminar 11: Collaborative research activities	Presentation, Conversation, Examples	

Seminar 12: Intellectual property rights of research result	Presentation, Conversation, Examples	
Seminar 13: Publications versus Patents	Presentation, Conversation, Examples	
Seminar 14: Checking the articles based on the master thesis results	Presentation, Conversation, Examples	
Recommended literature		
<ol style="list-style-type: none"> 1. Peter Vinkler, <i>The Evaluation of Research by Scientometric Indicators</i>, ISBN 9781843345725, 2010 2. Olivier Le Deuff, "The New Metrics: From Scientometrics to Webometrics," in <i>Digital Humanities: History and Development</i>, Wiley, 2018, pp.101-111, doi: 10.1002/9781119308195.ch9 3. M. Gunter and M. Gisler, "Intellectual properties as intangible goods," <i>Proceedings of the 33rd Annual Hawaii International Conference on System Sciences</i>, 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.

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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 contribute to the improvement of the software tool for research reporting of the university, implementing the principles discussed during the seminar	Oral examination	50%
10.6. Minimum needed performance for passing			
General understanding of a research activity			

 Date of completion
20.09.2020

 Signature (lecture instructor)
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 Signature (seminar instructor)
Prof. Dr. Dana Petcu

Date of approval

Signature (director of the department)