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			Thesis preparation				
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	8	out of which: 3.2 lecture	-	3.3. seminar / laboratory	3
3.4. Attendance hours per semester	112	out of which: 3.5 lecture	-	3.6. seminar / laboratory	112

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	205
3.9. Number of credits (ECTS)	15

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	Online, Google Meet, digital materials at https://staff.fmi.uvt.ro/~dana.petcu/thesis.htm

6. Specific acquired competences

Professional competences	• Ability to prepare a thesis

	• Ability to prepare a synthesis of relevant bibliographical resources
Transversal competences	• Ability to write a scientific report • Ability to prepare a scientific presentation

7. Course objectives

7.1. General objective	• Acquire the knowledge necessary to handle an individual study
7.2. Specific objectives	• Apply the knowledge about support tools for research activities to the master's thesis

8. Content

8.1. Lecture	**Teaching methods**	**Remarks, details**
Recommended literature		
8.2. Seminar / laboratory	**Teaching methods**	**Remarks, details**
Seminar 1: Master thesis requirements	Presentation, Conversation, Examples	https://staff.fmi.uvt.ro/~dana.petcu/seminar/MasterThesisRequirements.pdf
Seminar 2: Literature surveys	Presentation, Conversation, Examples	https://staff.fmi.uvt.ro/~dana.petcu/seminar/LiteratureSurveys.pdf
Seminar 3: Identifying gaps in the state-of-the-art	Presentation, Conversation, Examples	https://staff.fmi.uvt.ro/~dana.petcu/seminar/Gaps.pdf
Seminar 4: From idea to concept and its implementation – a bumping journey	Presentation, Conversation, Examples	https://staff.fmi.uvt.ro/~dana.petcu/seminar/FromIdeaToImplementation.pdf
Seminar 5: Concept vs. product, open versus proprietary – where a master thesis should stand	Presentation, Conversation, Examples	https://staff.fmi.uvt.ro/~dana.petcu/seminar/ConceptProduct.pdf
Seminar 6: Software tools for presentations	Presentation, Conversation, Examples	https://staff.fmi.uvt.ro/~dana.petcu/seminar/Presentations.pdf
Seminar 7: Software tools for writing the thesis	Presentation, Conversation, Examples	https://staff.fmi.uvt.ro/~dana.petcu/seminar/Writing.pdf
Seminar 8: Software tools for originality checks	Presentation, Conversation, Examples	https://staff.fmi.uvt.ro/~dana.petcu/seminar/Originality.pdf
Seminar 9: Software tools for activities scheduling	Presentation, Conversation, Examples	https://staff.fmi.uvt.ro/~dana.petcu/seminar/ActivityScheduling.pdf
Seminar 10: Software tools for handling references	Presentation, Conversation, Examples	https://staff.fmi.uvt.ro/~dana.petcu/seminar/ToolsForReferences.pdf
Seminar 11: Research ethics applied to master thesis	Presentation, Conversation, Examples	https://staff.fmi.uvt.ro/~dana.petcu/seminar/EthicsMaster.pdf
Seminar 12: Intellectual properties of the results exposed in master thesis	Presentation, Conversation, Examples	https://staff.fmi.uvt.ro/~dana.petcu/seminar/IPRMaster.pdf
Seminar 13: Research activities in PhD stage	Presentation, Conversation, Examples	https://staff.fmi.uvt.ro/~dana.petcu/seminar/PhD-Stage.pdf

Seminar 14: Checking the master thesis presentations	Presentation, Conversation, Examples	

Recommended literature

1. Yvonne Bui, How to write a master's thesis, 2nd edition, Sage publications, 2013, ISBN 978-1452203515
2. Brian Paltridge and Sue Starfield, Thesis and Dissertation Writing in a Second Language, 2007, Routledge, ISBN 978-0-415-37170-4

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 present their master thesis results following the principles and concepts exposed during the seminar	Oral examination	50%
	The students should be able to respond to questions related to the software tools in supporting their thesis preparation, reference organisation, property rights, future use of own software prototypes	Oral examination	50%
10.6. Minimum needed performance for passing			
Thesis available in a preliminary form			

Date of completion	Signature (lecture instructor)	Signature (seminar instructor)
27.01.2022	-	Prof. Dr. Dana Petcu
Date of approval	Signature (director of the department)	