

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	1	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	-	3.3. seminar / laboratory	3
3.4. Attendance hours per semester	42	out of which: 3.5	-	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)	5				

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: Access to scientific literature	Presentation, Conversation, Examples	Materials of the web site https://staff.fmi.uvt.ro/~dana.petcu/seminar.htm
Seminar 2: Use of editors for scientific texts	Presentation, Conversation, Examples	Materials of the web site https://staff.fmi.uvt.ro/~dana.petcu/seminar.htm
Seminar 3: Rules in writing scientific papers and reports	Presentation, Conversation, Examples	Materials of the web site https://staff.fmi.uvt.ro/~dana.petcu/seminar.htm
Seminar 4: Content and structure of a thesis	Presentation, Conversation, Examples	Materials of the web site https://staff.fmi.uvt.ro/~dana.petcu/seminar.htm
Seminar 5: State-of-the-art preparation	Presentation, Conversation, Examples	Materials of the web site https://staff.fmi.uvt.ro/~dana.petcu/seminar.htm
Seminar 6: Originality in scientific documents	Presentation, Conversation, Examples	Materials of the web site https://staff.fmi.uvt.ro/~dana.petcu/seminar.htm
Seminar 7: Oral presentations	Presentation, Conversation, Examples	Materials of the web site https://staff.fmi.uvt.ro/~dana.petcu/seminar.htm
Seminar 8: Publication classification	Presentation, Conversation, Examples	Materials of the web site https://staff.fmi.uvt.ro/~dana.petcu/seminar.htm
Seminar 9: Fundamental vs. applied vs. experimental research	Presentation, Conversation, Examples	Materials of the web site https://staff.fmi.uvt.ro/~dana.petcu/seminar.htm
Seminar 10: Researcher activities	Presentation, Conversation, Examples	Materials of the web site https://staff.fmi.uvt.ro/~dana.petcu/seminar.htm

Seminar 11: Reviews	Presentation, Conversation, Examples	Materials of the web site https://staff.fmi.uvt.ro/~dana.petcu/seminar.htm
Seminar 12: Measuring the research outputs	Presentation, Conversation, Examples	Materials of the web site https://staff.fmi.uvt.ro/~dana.petcu/seminar.htm
Seminar 13: Research funding	Presentation, Conversation, Examples	Materials of the web site https://staff.fmi.uvt.ro/~dana.petcu/seminar.htm
Seminar 14: Research management and team work	Presentation, Conversation, Examples	Materials of the web site https://staff.fmi.uvt.ro/~dana.petcu/seminar.htm
Recommended literature		
<ol style="list-style-type: none"> 1. C.C. Gaither, Alma E Cavazos-Gaither, Scientifically Speaking: A Dictionary of Quotations, 2nd Edition, Taylor & Francis, 2000 2. Sinclair Goodlad, c - A Handbook for Scientists, Engineers and Physicians on How to Improve Technical Presentations, Imperial College Press, 1996 3. Martha Davis, Scientific Papers and Presentations, Second Edition, Elsevier, 2004 4. Michael J. Katz, From Research to Manuscript: A Guide to Scientific Writing, Springer, 2006 5. Jennifer Peat, Elizabeth Elliott, Louise Baur, Victoria Keena, Scientific Writing: Easy When You Know How, BMJ Books, 2002 6. Jean-Luc Lebrun, Scientific Writing: A Reader and Writer's Guide, World Scientific Publishing Company, 2007 7. Michael Alley, The Craft of Scientific Presentations : Critical Steps to Succeed and Critical Errors to Avoid, Springer, 2007 8. Ann M. Koerner, Guide to Publishing a Scientific Paper, Bioscript Press, 2004 9. Philip Rubens, Science and Technical Writing: A Manual of Style, Second Edition, Routledge, 2000 10. Robert A. Day , Barbara Gastel, How to Write & Publish a Scientific Paper, 6th Edition, Greenwood Press, 2006 11. Rita S. Brause, Writing Your Doctoral Dissertation: Invisible Rules for Success, Routledge, 2005 12. Justin Zobel, Writing for Computer Science, Springer, 2004 13. William E. Russey, Hans Friedrich Ebel, Claus Bliefert, How to Write a Successful Science Thesis: The Concise Guide for Students, Wiley, 2006 		

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: 1. A research plan 2. A report containing a state of the art in the field of the master	Oral examination	50%

	thesis 3. A research methodology 4. A relevant and up to date bibliography		
	Oral presentation of the intermediate report / bibliographic report of the master thesis		50%
10.6. Minimum needed performance for passing			
General understanding of a research activity			

Date of completion

28.09.2018

Signature (lecture instructor)

Signature (seminar instructor)

Date of approval

Signature (director of the department)