

SYLLABUS / FIȘA DISCIPLINEI
1. Information on the study programme / Date despre programul de studii

1.1. Institution / Instituția de învățământ superior	Universitatea de Vest din Timișoara
1.2. Faculty / Facultatea	Matematică și Informatică
1.3. Department / Departamentul	Computer Science (Informatică)
1.4. Study program field	Computer Science (Informatică)
1.5. Study cycle/ Ciclul de studii	MSc / master
1.6. Study programme / Programul de studii / calificarea*	Artificial Intelligence and Distributed Computing

2. Information on the course / Date despre disciplină

2.1. Title of the course / Denumirea disciplinei		Research Practice and Dissertation Preparation					
2.2. Teacher in charge of the course / Titularul activităților de curs							
2.3. Teacher in charge of the seminar / Titularul activităților de seminar		Prof. Dr. Viorel Negru, Prof. Dr. Daniela Zaharie					
2.4. Study year / Anul de studii	II	2.5. Semester / Semestrul	2	2.6. Examination type / Tipul de evaluare: E(xam)/C(olloquim)	C	2.7. Course type / Regimul disciplinei: M(andatory)/ E(lective)/ F(acultative)	M

3. Estimated study time (number of hours per semester) /Timpul total estimat (ore pe semestru al activităților didactice)

3.1. Attendance hours per week / Număr de ore pe săptămână	8	out of which din care: 3.2 lecture/ curs	-	3.3. seminar/laborator	8
3.4. Attendance hours per semester / Total ore din planul de învățământ	102	out of which: 3.5 lecture / curs	-	3.6. seminar/laborator	102
Distribution of the allocated amount of time / Distribuția fondului de timp*					hours/ ore
Individual study /Studiu după manual, suport de curs, bibliografie și notițe					110
Supplementary documentation at library or using electronic repositories / Documentare suplimentară în bibliotecă, pe platformele electronice de specialitate					50
Preparing for laboratories, homework, reports etc. /Pregătire seminarii/laboratoare, teme, referate, portofolii și eseuri					90
Exams / Examinări					11
Tutoring / Tutorat					12
3.7. Total number of hours of individual study / Total ore studiu individual	273				
3.8. Total number of hours per semester / Total ore pe semestru	375				

3.9. Number of credits (ECTS) / Număr de credite	15
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4. Prerequisites (if it is the case) / Precondiții (acolo unde e cazul)

4.1. curriculum / de curriculum	Techniques for Scientific Research
4.2. skills / de competențe	Depending on the topic of disertation

5. Requirements (if it is the case) / Condiții (acolo unde e cazul)

5.1. for the lecture / de desfășurare a cursului	Room with blackboard and video projector
5.2. for the seminar, laboratory / de desfășurare a seminarului/laboratorului	Laboratory with computers (INTERNET access)

6. Acquired skills / Competențe specifice acumulate

Professional skills / Competențe profesionale	<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 - Ability to investigate new approaches / to propose new models / to implement new technologies - Ability to test and validate the solutions proposed
Transversal skills / Competențe transversale	<ul style="list-style-type: none"> - Ability to prepare a report - Ability to prepare a presentation - Ability to presents the results of a research activity

7. Objectives of the course / Obiectivele disciplinei (reieșind din grila competențelor specifice acumulate)

7.1. General objective / Obiectivul general al disciplinei	<ul style="list-style-type: none"> • The students have to prepare a Project related to the application developed in the context of the master thesis • The students have to prepare a presentation with main results
7.2. Specific objectives / Obiectivele specifice	

8. Content / Conținuturi*

8.1. Lecture / Curs	Teaching strategies / Metode de predare	Remarks, details / Observații
Recommended bibliography / Bibliografie		
8.2. Seminar, lab / Seminar, laborator	Teaching/learning strategies / Metode de predare/ învățare	Remarks, details / Observații
1. How to access a bibliographical resource. Usage of Scopus, ScienceDirect, CiteSeer, SringerLink, IEEE, ACM	Conversation, Examples, Study cases	Biblio: slides

etc (2)		
2. How to organize and search a personal collection of scientific documents. Usage of Mendeley(2).		
3 How to prepare and conduct a research plan (2)		
4 How to prepare a master thesis (structure, mandatory elements, frequent mistakes etc.) (2)		
5 How to prepare a reference list and to properly cite works of other authors (2)		
6 How to clear describe the research objectives (general and specific)		
7 How to propose their own models / methods / algorithms / architectures / prototypes / systems.		
8 How to prepare comparative studies. Statistical techniques used in comparing results obtained with different techniques / methods.		
9 How to conclude about own research and how to propose new extension and new research directions		
10 How to prepare an oral presentation		
Recommended bibliography / Bibliografie		

The lab activity is based on the presentation of each topic followed by an open discussion. Brainstorming sessions will be organized.

9. Correlations between the content of the course and the requirements of the IT field / Coroborarea conținuturilor disciplinei cu așteptările reprezentanților comunității epistemice, asociațiilor profesionale și angajatorilor reprezentativi din domeniul aferent programului

10. Evaluation / Evaluare*

Activity / Tip de activitate	10.1. Evaluation criteria / Criterii de evaluare**	10.2. Evaluation methods / Metode de evaluare***	10.3. Weight in the averaged mark / Pondere din nota finală
10.4. Lecture / Curs			
10.5. Seminar/ lab		Oral examination	
	The students should prepare during the semester: 1. A research plan updated 2. A project related to the applications developed in the context of the master thesis 3. A report containing the main results obtained on the topic of the master thesis		40%
	Oral presentation		30%
	Scientific advisor evaluation		30%
10.6. Minimal knowledge for passing / Standard minim de performanță			
<ul style="list-style-type: none"> General understanding of the material, ability to answer 50% of the questions. 			

Date/ Data completării
1.10.2016

Signature (lecture) /
Semnătura titularului de curs

Signature (seminar)
Semnătura titularului de seminar

Signature (director of the department)
Semnătura directorului de departament
Conf.dr. Victoria Iordan