BRIEF COURSE SYLLABUS: "MATHEMATICS OF MACHINE LEARNING" 2020-2021

1. Information about the programme

1.1 Department	Exact Sciences	
1.2 Institution	Romanian Academy	
1.3 Field of study	Informatics	
1.4 Study cycle	Doctoral Studies	

2. Information about the course

2.1 Name of the course		Mathematics of machine learning					
2.2 Holder of lectu	re act	ivities	As	sociate Professor Ma	rius Leoro	leanu, Ph.D.	
2.3 Holder of seminar activities		Associate Professor Marius Leordeanu, Ph.D.					
2.4 Holder of labo	ratory	activities					
2.5 Study year	I	2.6 Semester	II	2.7 Type of assessment	E*	2.8 Course status	SC**

3. Estimated total time (hours of teaching activities per semester)

3.1 Number of hours per week	4	Of which:			
3.2 lecture	2	3.3 seminar	2	3.4 laboratory	0
3.5 Total hours in the curriculum	56	Of which:			
3.6 lecture	28	3.7 seminar	28	3.8 laboratory	0
Distribution of time resources:					hours
Studying using textbook, course mater	ials, biblic	graphy and note	S		60
Additional research in the library, on s	pecialized	l electronic platfo	rms an	d on the field	55
Preparation for seminars/laboratories,	homewor	k, papers, portfo	lios and	lessays	44
Tutoring					55
Examinations					4
Other activities: Module: General resear	rch method	is and methodolog	y for w	riting research papers	6
3.9 Total individual study hours	224				

3.9 Total individual study hours2243.10 Total hours per semester2803.11 Number of credits15

4. "Learning outcomes" and specific skills acquired

- 1. Acquiring the curriculum content taught in the course;
- 2. Ability to use the presented results in new contexts;
- 3. The knowledge and skills acquired within this course will be the basis of future scientific and didactic research activities;
- 4. Ability to select and use independently the most appropriate scientific research methods in one's own professional activity;
- 5. Ability to present the results obtained in one's own scientific research;
- 6. Knowledge of the notion of copyright and its ethical implications;
- 7. Knowledge of the general principles of writing a scientific paper;
- 8. Writing a scientific paper;
- 9. Writing a research project.

^{*}E = Exam. C = Colloquium.

^{**}CC = Core Course. SC = Specialty Course.

5. Assessment

red knowledge	XX7.:44	5.3 Weight in the final grade
THE PROPERTY OF THE PARTY OF TH	Written exam	65%
ty	Oral exam	35%
		Oral exam nce standard: Knowledge of 70% of the information c

Course holder's signature Associate Professor Marius Leordeanu, Ph.D.

Seminar holder's signature Associate Professor Marius Leordeanu, Ph.D. Laboratory holder's signature

^{*}E = Exam. C = Colloquium.

^{**}CC = Core Course. SC = Specialty Course.