

SHORT DESCRIPTION OF THE COURSE: „HERMITIAN VECTOR BUNDLES AND HODGE THEORY”
2011-2012

1. Program information

1.1 Department	Exact Sciences
1.2 Institution	Romanian Academy
1.3 Field of study	Mathematics
1.4 Cycle of study	PhD

2. Course information

2.1 Course title	Hermitian vector bundles and Hodge theory						
2.2 Course coordinator	C.S. I Dr. Mihnea Colţoiu						
2.3 Seminar coordinator	C.S. I Dr. Mihnea Colţoiu						
2.4 Laboratory activities coordinator							
2.5 Year of study	I	2.6 Semester	II	2.7 Type of evaluation	WE*	2.8 Course type	SC**

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

3.1 Hours/week	4	Of which:					
3.2 Course	2	3.3 Seminar	2	3.4 Laboratory	0		
3.5 Total of hours in the curriculum	56	Of which:					
3.6 Course	28	3.7 Seminar	28	3.8 Laboratory	0		
Distribution of time:							hours
Study by textbook, course support, bibliography and notes							60
Additional documentation in the library, on specialized electronic platforms and in the field							100
Preparation of seminars / laboratories, homework, papers, portfolios and essays							94
Tutorial activity							55
Examinations							4
Other activities: Course module: General research methods and methodology of elaboration of scientific papers							6
3.9 Total individual study hours	319						
3.10 Total hours per semester	375						

*WE = Written examination. OE = Oral examination.

**BC = Basic course. SC = Specialized course.

3.11 Number of credits	20
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4. "Learning outcomes" and specific skills acquired

1. Learning the subject taught in the course;
2. Ability to use the results presented in new contexts;
3. The knowledge and skills acquired within this discipline will be the basis of future scientific and didactic research activities;
4. Ability to select and use independently the most appropriate methods of scientific research 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.

5. Examination

Activity type	5.1 Evaluation criterias	5.2 Examination methods	5.3 Pondere din nota finală
5.4 Course	Acquired knowledge	Written examination	65%
5.5 Seminar	Activity	Oral examination	35%
5.6 Laboratory			
5.7 Minimum performance standard: Knowledge of 70% of the information contained in the course			

Course coordinator's signature

Seminar coordinator's signature

Laboratory coordinator's signature

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