

SYLLABUS

1. Information regarding the programme

1.1 Higher education institution	Babeş Bolyai University
1.2 Faculty	Faculty of Mathematics and Computer Science
1.3 Department	Department of Computer Science
1.4 Field of study	Computer Science
1.5 Study cycle	Bachelor
1.6 Study programme / Qualification	Computer Science

2. Information regarding the discipline

2.1 Name of the discipline		Hystory of Math					
2.2 Course coordinator		Assoc.Prof.PhD. Simion Breaz					
2.3 Seminar coordinator							
2.4. Year of study	3	2.5 Semester	6	2.6. Type of evaluation	E	2.7 Type of discipline	Optional

3. Total estimated time (hours/semester of didactic activities)

3.1 Hours per week	2	Of which: 3.2 course	2	3.3 seminar/laboratory	0
3.4 Total hours in the curriculum	28	Of which: 3.5 course	28	3.6 seminar/laboratory	0
Time allotment:					hours
Learning using manual, course support, bibliography, course notes					14
Additional documentation (in libraries, on electronic platforms, field documentation)					14
Preparation for seminars/labs, homework, papers, portfolios and essays					14
Tutorship					
Evaluations					23
Other activities:					0
3.7 Total individual study hours			75		
3.8 Total hours per semester			150		
3.9 Number of ECTS credits			3		

4. Prerequisites (if necessary)

4.1. curriculum	↑ --
4.2. competencies	↑ --

5. Conditions (if necessary)

5.1. for the course	↑
5.2. for the seminar /lab activities	↑

6. Specific competencies acquired

Professional competencies	<ul style="list-style-type: none"> ◆ Adapting mathematical content with different levels of difficulty in specific situations; ◆ Making connections between results and specific notions of specialized branches of mathematics (algebra, calculus, etc.). ◆ Acquisition of skills about preparing a presentation.
Transversal competencies	<ul style="list-style-type: none"> ◆ Handling various mathematical objects in theoretical or practical situations; ◆ Acquiring practical skills related to self-study; ◆ Ability to apply specific mathematical results in other areas of theoretical or practical.

7. Objectives of the discipline (outcome of the acquired competencies)

7.1 General objective of the discipline	<ul style="list-style-type: none"> ◆ Understanding the development of mathematical concepts along the time.
7.2 Specific objective of the discipline	<ul style="list-style-type: none"> ◆ To obtain an overview of the mathematics in historical context. ◆ Understanding mathematics as part of the culture. ◆ Improve the communication skills.

8. Content

8.1 Course	Teaching methods	Remarks
1. Preliminarii. Perioade specifice dezvoltatii matematicii	Exposure: description, explanation, examples, discussion of case studies	The course is presented in Romanian
2. Matematica in Grecia antica. Probleme faimoase ale grecilor.	Exposure: description, explanation, examples, discussion of case studies	
3. Matematica in Evul Mediu. Matematica in timpul Renasterii.	Exposure: description, explanation, examples, debate, dialogue	
4. Calculul modern: Newton si Leibniz. Integrala Riemann.	Exposure: description, explanation, examples, discussion of case studies	
5. Geometrie si axiomatizare. Rezolvarea ecuatiilor algebrice.	Exposure: description, explanation, examples, proofs	
6. Problema fundamentelor. Teoria multimilor sau a lucra cu infinitul.	Exposure: description, explanation, examples, proofs, debate, dialogue	
Bibliography		
1. Both, Nicolae: Istoria matemaicii. Editura ALC Media Group, Cluj-Napoca, 1999.		
2. Mihaileanu, N.: Istoria matematicii – Antichitatea; Evul mediu; Renasterea si secolul al 17-lea. Editura Enciclopedica Româna, Bucuresti, 1974.		
3. Mihaileanu, N.: Istoria matematicii -- Secolul al 18-lea; Prima jumătate a secolului a 19-lea; Dezvoltarea ulterioara a matematicii. Editura Stiintifica si Enciclopedica, Bucuresti, 1981.		
4. Toth Alexandru: Istoria matematicii, Univ. "Babes-Bolyai" Cluj, Facultatea de Matematica si		

9. Corroborating the content of the discipline with the expectations of the epistemic community, professional associations and representative employers within the field of the program

- ◆ The course respects the standards used by many universities;
- ◆ The course exists in the studying program of all major universities in Romania and abroad;

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the grade (%)
10.4 Course	The presentation of a concept or a mathematical personality	Essay	50%
	- be able to associate an historical period to a mathematical event	Colloquium	50%
10.6 Minimum performance standards			
➤ At least grade 6 (from a scale of 1 to 10) at essay.			

Date

Signature of course coordinator

Signature of seminar coordinator

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Date of approval

Signature of the head of department

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