

## 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 Mathematics
1.4 Field of study	Mathematics
1.5 Study cycle	Bachelor
1.6 Study programme / Qualification	

### 2. Information regarding the discipline

2.1 Name of the discipline (en) (ro)	Complements of geometry Complemente de geometrie						
2.2 Course coordinator	VĂCĂREȚU DANIEL						
2.3 Seminar coordinator	VĂCĂREȚU DANIEL						
2.4. Year of study	<b>2</b>	2.5 Semester	<b>2</b>	2.6. Type of evaluation	<b>VP</b>	2.7 Type of discipline	<b>DS</b>
2.8 Code of the discipline	MLE0041						

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

3.1 Hours per week	4	Of which: 3.2 course	2	3.3 seminar/laboratory	2
3.4 Total hours in the curriculum	56	Of which: 3.5 course	28	3.6 seminar/laboratory	28
Time allotment:					hours
Learning using manual, course support, bibliography, course notes					20
Additional documentation (in libraries, on electronic platforms, field documentation)					20
Preparation for seminars/labs, homework, papers, portfolios and essays					20
Tutorship					14
Evaluations					10
Other activities: .....					10
3.7 Total individual study hours			94		
3.8 Total hours per semester			150		
3.9 Number of ECTS credits			7		

### 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

<b>Professional competencies</b>	
<b>Transversal competencies</b>	

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

7.1 General objective of the discipline	•
7.2 Specific objective of the discipline	•

### 8. Content

8.1 Course	Teaching methods	Remarks
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Bibliography		

1. ALBU A.C., col., Geometrie pentru perfecționarea profesorilor, Ed. Didactică și Pedagogică, București,1983..
2. D.ANDRICA, CS.VARGA, D.VĂCĂREȚU, Teme si probleme alese de geometrie, Ed. Plus, București, 2002.
3. D.ANDRICA, CS.VARGA, D.VĂCĂREȚU, Teme de geometrie, Ed. Promedia-Plus, Cluj-Napoca, 1997
4. D.BRANZEI, COL., Planul si spațiul euclidian, Editura Academiei, București, 1986.
5. LALESCU,T., Geometria triunghiului, Ed.Tineretului,1958
6. MIHALESCU,C., Geometria elementelor remarcabile, Ed.Tehnica,Bucuresti,1957 sau Ed. Societății de Științe Matematice din Romania București, 2007, sau XYZ Press, 2016 ( în engleză )
7. NICOLESCU, L.-BOSKOFF, V., Probleme practice de geometrie, Editura Tehnica, București, 1990

8.2 Seminar / laboratory	Teaching methods	Remarks
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#### Bibliography

1. ALBU A.C., col., Geometrie pentru perfecționarea profesorilor, Ed. Didactică și Pedagogică, București,1983.
2. D.ANDRICA, CS.VARGA, D.VĂCĂREȚU, Teme si probleme alese de geometrie, Ed. Plus, București,2002.
3. D.ANDRICA, CS.VARGA, D.VĂCĂREȚU, Teme de geometrie, Ed. Promedia-Plus, Cluj-Napoca,1997
4. D.BRÂNZEI, COL., Planul si spațiul euclidian, Editura Academiei, București, 1986.
5. LALESCU,T., Geometria triunghiului, Ed. Tineretului, 1958
6. MIHALESCU, C., Geometria elementelor remarcabile, Ed. Tehnică, București, 1957 sau Ed. Societății de Științe Matematice din Romania, București, 2007 sau XYZ Press, 2016 ( în engleză )
7. NICOLESCU, L., BOSKOFF, V., Probleme practice de geometrie, Editura Tehnică, București, 1990

**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**

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**10. Evaluation**

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the grade (%)
10.4 Course			
10.5 Seminar/lab activities			
10.6 Minimum performance standards			
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Date

21. 04.2018

Signature of course coordinator

lect. univ. dr. Văcărețu Daniel

Signature of seminar coordinator

lect. univ. dr. Văcărețu Daniel

Date of approval

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Signature of the head of department

prof. dr. Agratini Octavian