



**MINISTERUL EDUCAȚIEI**  
**UNIVERSITATEA „AUREL VLAICU” DIN ARAD**  
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**Operator de date cu caracter personal nr.2929**

**SUBJECT SHEET**

**1. Program Data**

1.1. Higher education institution	"AUREL VLAICU" UNIVERSITY OF ARAD
1.2. Faculty	of Exact Sciences
1.3. Department	Department of Mathematics and Computer Science
1.4. Field of study	Mathematics
1.5. Academic year	2024-2025
1.6. Cycle of studies	License
1.7. Specialization / Study Program	Computer Science Mathematics
1.8. Form of education	Full-time education (IF)

**2. Discipline Data**

2.1. Name of the discipline	GICS6O08 Elaboration of the bachelor's thesis
2.2. Education Plan Holder	dr. Deac Dan-Stelian
2.3. Assistant	dr. Deac Dan-Stelian
2.4. Year of study	3
2.5. Semester	2
2.6. Type of assessment	ES
2.7. Discipline regime	Ob

**3. Total estimated time (hours per semester of teaching activities)**

3.1. Number of hours per week	8
3.2. Hours of classes per week	0
3.3. Seminar/laboratory/project hours per week	8
3.4. Total hours of the curriculum	112
3.5. Course hours per semester	0
3.6. Seminar/laboratory/project hours per semester	112
Time Pool Distribution [Hours]	
3.4.1. Study by textbook, course material, bibliography and notes	20
3.4.2. Additional documentation in the library, on specialized electronic platforms and in the field	23
3.4.3. Preparation of seminars/laboratories, assignments, papers, portfolios and essays	10
3.4.4. Tutoring	10
3.4.5. Examinations	8
3.4.6. Other activities ...	0
3.7. Total hours of individual study	63
3.8. Total hours per semester	175
3.9. Number of credits	7

**4. Preconditions (where applicable)**

4.1. Curriculum prerequisites	
4.2. Competence preconditions	

**5. Necessary conditions (where applicable)**

5.1. Conditions for the course	
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5.2. Conditions for the seminar	
5.3. Conditions for conducting the laboratory	<b>Laboratory room, properly equipped: computers, network, Internet connection</b>
5.4. Conditions for carrying out the project	

**6. Specific competences acquired** (where applicable)

6.1. Professional competences	<b>C3. Synthesize C12 information. Provides proof of C15 disciplinary expertise. Use mathematical and computer tools</b>
6.2. Cross-cutting competency	<b>CT3. Takes responsibility for CT5. Show confidence CT7. Planning</b>

**7. Objectives of the discipline** (where applicable)

7.1. General objective of the discipline	<b>Developing skills in documenting and synthesizing information, collecting, analyzing and interpreting data and designing a project appropriate to the research.</b>
7.2. Specific objectives	<ul style="list-style-type: none"> <li>- knowledge and understanding of the standards specific to a scientific work</li> <li>- knowledge and understanding of the most relevant sources of information used in the development of scientific research</li> <li>- the ability to identify and formulate the purpose of a scientific work and its specific objectives;</li> <li>- the ability to extract the most relevant ideas, conclusions from the paper and to formulate future research proposals.</li> </ul>

**8. Contents** (where applicable)

8.1 Course Content	Teaching methods	Observations
8.2 Course Bibliography		
8.3 Seminar Content	Teaching methods	Observations
8.4 Seminar Bibliographies		
8.5 Lab Content	Teaching methods	Observations
Study of specialized literature	• heuristic conversation ■ exemplification ■ exercise	22 hours
Research methods	• heuristic conversation ■ exemplification ■ exercise	22 hours
Academic Writing Rules	• heuristic conversation ■ exemplification ■ exercise	22 hours
Research ethics	• heuristic conversation ■ exemplification ■ exercise	22 hours
License Preparation	• heuristic conversation ■ exemplification ■ exercise	24 hours
8.6 Laboratory bibliography <b>1. Andonie R., Dzitic I. (2010), How to Write a Good Paper in Computer Science and How Will It Be Measured by ISI Web of Knowledge, International Journal of Computers Communications &amp; Control, ISSN1841-9836, Vol.5, No.4, pp. 432-446, 2010 (Article WOS:000282600700002, IF= 1.374). DOI:http://dx.doi.org/10.15837/ijccc.2010.4</b> <b>2. C.A. Mach, How to Write a Good Scientific Paper, SPIE, 2018.</b> <b>3. Dmitrij OLIFER, AUTOMATION OF HARMONIZATION, ANALYSIS AND EVALUATION OF INFORMATION SECURITY REQUIREMENTS, DOCTORAL DISSERTATION, Gediminas Vilnius Technical University, Vilnius, 2019.</b> <b>4. X.X. Wang, Z.S. Xu, I. Dzitic, Bibliometric Analysis on Research Trends of International Journal of Computers Communications &amp; Control, INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS &amp; CONTROL, ISSN 1841-9836, e-ISSN 1841-9844, 14(5), 711-732, October 2019</b>		
8.7 Project Content	Teaching methods	Observations
8.8 Project Bibliography		

**9. Corroborating/validating the contents of the discipline** (where applicable)

<b>The content of the discipline is in accordance with the content of similar disciplines in other university centers in the country and abroad.</b>
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**10. Assessment** (where applicable)

Activity Type	Evaluation criteria	Evaluation methods	Weight of the final grade
10.1. Course			
10.2. Seminar			
10.3. Laboratory	<b>• the ability to operate with the assimilated knowledge; ■ the ability to apply conscientiousness, interest in study in practice</b>	Oral evaluation (final in the exam session) Realization and presentation of the final project Active participation in laboratory applications	80% 20%
10.4. Project			
10.5 Minimum Performance Standard			

Acquiring fundamental concepts, using specialized language, carrying out the project

Titular dr. Deac  
Dan-Stelian

Assistant dr. Deac  
Dan-Stelian

DEPARTMENT DIRECTOR  
Reader Popa Lorena

DEAN  
Prof.univ.dr. Sorin-Florin NĂDĂBAN