SYLLABUS

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1.1 Higher education	Babe -Bolyai University
institution	
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 /	Computer Science
Qualification	

1. Information regarding the programme

2. Information regarding the discipline

2.1 Name of the	e dis	scipline	His	story of Computer Scie	ence		
2.2 Course coor	din	ator		Lect. PhD. Sterca Adr	ian		
2.3 Seminar coo	ordi	nator		Lect. PhD. Sterca Adr	ian		
2.4. Year of	3	2.5	6	2.6. Type of	Ε	2.7 Type of	Optional
study		Semester		evaluation		discipline	

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

3.1 Hours per week	1	Of which: 3.2 course	1	3.3	0
				seminar/laboratory	
3.4 Total hours in the curriculum	12	Of which: 3.5 course	12	3.6	0
				seminar/laboratory	
Time allotment:					hours
Learning using manual, course support, bibliography, course notes					23
Additional documentation (in libraries, on electronic platforms, field documentation)					20
Preparation for seminars/labs, homework, papers, portfolios and essays					0
Tutorship					5
Evaluations					15
Other activities:					0
3.7 Total individual study hours63					

3.7 Total individual study hours	63
3.8 Total hours per semester	75
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	Class room with a video projector device
5.2. for the seminar /lab	•
activities	

Professional competencies	 Knowledge, understanding and use of basic concepts of theoretical Computer Science
al ties	 Knowing the milestones in the history of computers and of computer science and knowing the most important people in computer science
Transversal competencies	 Being able to view Computer Science as a whole and to see the interconnections among various fields in Computer Science; Being able to give lectures on the evolution of Computer Science

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

7.1 General objective of the discipline	• To obtain a global view of Computer Science and to understand and know its evolution.
7.2 Specific objective of the discipline	 To get students accustomed with historical evolution of the main Computing Systems and Operating Systems types existent in today Computer Science and in perspective. To discover the most important people in Computer Science.

8. Content

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8.1 Course	Teaching methods	Remarks
1. Algorithmics in ancient times and Middle Age;	Exposure:description,	The course is
Euclid's algorithm. First Computing Systems and	explanation, examples	structured as 2 hours
first programming elements: Blaise Pascal, Charles		classes, one course
Babage and Ada Byron, forerunners of classical		every two weeks
Computer Science.		
2. Mathematical models in Computer Science: the	Exposure:description,	
Turing machine, normal algorithms and formal	explanation,examples	
languages. The emergence of the electronic		
computer(1943-45); John von Neumann's and		
Alan Turing's contributions.		
3. Crucial moments in hardware development: the	Exposure:description,	
input-output channel, the transistor, VLSI circuits,	explanation, examples	
multiprocessor systems, real time systems,		
microcomputers and supercomputers.		
4. Operating systems, from resident monitors to	Exposure:description,	
distributed operating systems; from the monolithic	explanation, examples	
internal structure to stratified structures and		
microkernel.		
5. Computer generations. Short history of	Exposure:description,	
programming languages.	explanation, examples	
6.History of computer communication and the	Exposure:description,	
Internet.	explanation, examples	
Bibliography		
1. http://cs-exhibitions.uni-klu.ac.at/index.php?id=320		

- 2. http://cs-exhibitions.uni-klu.ac.at/index.php?id=321
- 3. http://cs-exhibitions.uni-klu.ac.at/index.php?id=323
- 4. Estabrook N. Teach Yourself the Internet in 24 Hours. E-book Mc Millan Computer programming: http://www.mcp.com
- 5. * *UNIX Unleashed. E-book Mc Millan Computer programming: http://www.mcp.com
- 6. History of Unix. http://perso.club-internet.fr/unix/history.html
- 7. http://www.wikipedia.org
- 8. http://www.cs.uwaterloo.ca/~shallit/Courses/134/history.html
- 9. http://www.computerhistory.org/

8.2 Seminar / laboratory	Teaching methods	Remarks
Bibliography		

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 IEEE and ACM Curriculla Recommendations for Computer Science studies;
- The course gives a global view on many fields in Computer Science so it provides the student a more general expertise in Computer Science;

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the grade (%)		
10.4 Course	Knowing the milestones in the evolution of Computer	Examination	100 %		
10.5 Seminar/lab activities	Science.				
10.6 Minimum performance standards In order to successfully pass this class, students must get at least 5 at the written exam.					

Date	Signature of course coordinator	Signature of seminar coordinator		
	Lect.PhD. Adrian Sterca	Lect.PhD. Adrian Sterca		
Date of approval	Signature of the head of department			
	Prof. PhD. Bazil Parv			