SYLLABUS

1. Information regarding the programme

1.1 Higher education	Babeş-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	

2. Information regarding the discipline

2.1 Name of the	dis	scipline	His	History of Computer Science				
2.2 Course coor	Course coordinator Lect. PhD. Sterca Adrian							
2.3 Seminar coo	ordi	nator		Lect. PhD. Sterca Adrian				
2.4. Year of	3	2.5	6	2.6. Type of C 2.7 Type of Optional				
study		Semester		evaluation discipline				

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

3.1 Hours per week	2	Of which: 3.2 course	2	3.3	0
				seminar/laboratory	
3.4 Total hours in the curriculum	24	Of which: 3.5 course	24	3.6	0
				seminar/laboratory	
Time allotment:	•				hours
Learning using manual, course support, bibliography, course notes					16
Additional documentation (in libraries, on electronic platforms, field documentation)					30
Preparation for seminars/labs, homework, papers, portfolios and essays					0
Tutorship					10
Evaluations					20
Other activities:					0
3.7 Total individual study hours		76			

3.7 Total individual study hours	76
3.8 Total hours per semester	100
3.9 Number of ECTS credits	4

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	

6. Specific competencies acquired

Professional competencies '	•
Transversal	 Applying rules for an organized and efficient work, responsible attitude towards the didactic-scientific field for creative valorification of one's own potential, complying to the principles and professional ethics norms Utilizing efficient methods and techniques for learning, knowing, research and development of knowledge valorification capacities, adapting to the requirements of a dynamic society and the communication in Romanian or an international language

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

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	
7. Important figures in Computer Science	Exposure:description,	

	explanation, examples
8. History of the open source movement vs. closed	Exposure:description,
source	explanation, examples
9. History of the WWW	Exposure:description,
	explanation, examples
10. History of mobile devices	Exposure:description,
	explanation, examples
11. History of Computer Science in Romania	Exposure:description,
	explanation, examples
12. Old computer exposition	Exposure

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/

J. http://www.computermstory.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 ectivity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the		
Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods			
			grade (%)		
10.4 Course	Knowing the milestones in	Students must write a report	100 %		
	the evolution of Computer	_			
	Science.				
10.5 Seminar/lab activities					
10.6 Minimum performance standards					
In order to successfully pass this class, students must get at least 5.					

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. Anca Andreica