SYLLABUS University year 2024-2025 Year of study II / Semester II

1. Information on academic programme

1.1. University	"1 Decembrie 1918" University of Alba Iulia	
1.2. Faculty	Faculty of Informatics and Engineering	
1.3. Department	Informatics, Mathematics and Electronics	
1.4. Field of study	Computer Science	
1.5. Cycle of study	Undergraduate	
1.6. Academic programme / Qualification	Computer Science / developers ESCO-08: 2511/ Systems Analyst, 2512/ Software developers Analyst 251201	
	Computer System Programmer 251204	
	Computer System Engineer 251203	

2. Information of Course Matter

2.1. Course		WEB application	s develonmer	nt	2.2. C	ode.	CSE211	
		T VVLB application			2.2. 0	oue	COLZII	
2.3. Course Leader			Lect. Univ. I	Dr. Cucu Ciprian				
2.4. Seminar Tutor			Lect. Univ. I	Or. Cucu Ciprian				
2.5. Academic Year	II	2.6. Semester	II	2.7. Type of Evaluation (E – final exam/ CE - colloquy examination / CA -continuous assessment)		E	2.8. Type of course (C– Compulsory, Op – optional, F - Facultative)	С

3. Course Structure

3.1. Weekly number of	4	3.2. course	2	3.3. seminar, laboratory	2
hours					
3.4. Total number of	56	3.5. course	28	3.6. seminar, laboratory	28
hours in the curriculum					
Allocation of time:					
Individual study of readers					
Documentation (library)					
Home assignments, Essays, Portfolios					
Tutorials					
Assessment					9
Other activities					

3.7 Total number of hours for individual	69
study	
3.8 Total number of hours in the curriculum	56
3.9 Total number of hours in the	125
curriculum	
3.10 Number of ECTS **	5

4. Prerequisites (where applicable)

4.1. curriculum-based	Object – oriented programming
4.2. competence-based	- high level language programming

5. Requisites (where applicable)

5.1. course-related	Room equipped with video projector / board / Microsoft	
	Teams Platform	
5.2. laboratory-based	Laboratory – computers / Microsoft Teams Platform	

6. Specific competences to be aquired (chosen by the course leader from the programme general competences grid)

or operation competences to be against (enecest by the course leader from the programme general competences gray		
Professional competences	Programming in high-level languages	
	Development and maintenance of computer applications	
Transversal competences	CT1 The application of rules for organized and efficient work, of responsible	
	attitudes towards the scientific and didactic domain, for the creative realization of	
	one'sown potential following the principles and norms of professional. Ethics.	

7. Course objectives (as per the programme specific competences grid)

7.1 General objectives of the	Students should ne able to describe fundamental concepts regarding the functioning of the Internet			
course	and be	and be able to design, programm, and implement a simple web application		
7.2 Specific objectives of the course	•	Fundamental knowlsedge about trasnmission and displaying infromation on the WEB		
course	•	Using methods, tools and languages dedicated to creating web applications		
	•	The capacity to develop a web application starting from given specifications		

8. Course contents *

8.1 C	Course	Teaching methods	Obs.
1	Working environment, tools.	Lecture, discussions,	
2	 Foundations of PHP – variables, data types, programming structures, PSR introduction 	presentation	
3	3. Include, require, more PSR rules		
4	4. OOP in Php, PSR for OOP		
5	5. Client-server: URL, URi, URN, HTTP protocol		
6	6. Data transfer in PHP - get & post.		
7	7. MySQL & PHP: procedural, OOP, PDO		
8	3. Sessions, cookies. Unit testing		
9	P. PHP security		
1	10. Web server configurations, deployment, .htaccess		
8.2.S	eminars-laboratories	Teaching methods	Observations
1		D: : : ::	
	HTML/CSS review	Discussion, presentation,	
	HTML/CSS review Basic PHP programming, parsing text files	Discussion, presentation, exercices	
2		The state of the s	
2	 Basic PHP programming, parsing text files OOP exercises 	The state of the s	
2 3 4	 Basic PHP programming, parsing text files OOP exercises 	The state of the s	
2 3 4 5	 Basic PHP programming, parsing text files OOP exercises Data transfer – GET, POST, forms 	The state of the s	
2 3 4 5	 Basic PHP programming, parsing text files OOP exercises Data transfer – GET, POST, forms PHP & MySQL – CRUD 	The state of the s	
2 3 4 5	2. Basic PHP programming, parsing text files 3. OOP exercises 4. Data transfer – GET, POST, forms 5. PHP & MySQL – CRUD 6. Class project: freelancer page with DB 7. Sign-up, authentication, session & cookies	The state of the s	
2 3 4 5 6 7	2. Basic PHP programming, parsing text files 3. OOP exercises 4. Data transfer – GET, POST, forms 5. PHP & MySQL – CRUD 6. Class project: freelancer page with DB 7. Sign-up, authentication, session & cookies	The state of the s	
2 3 4 5 6 7 8	2. Basic PHP programming, parsing text files 3. OOP exercises 4. Data transfer – GET, POST, forms 5. PHP & MySQL – CRUD 6. Class project: freelancer page with DB 7. Sign-up, authentication, session & cookies 8. PHP file upload, unit testing	The state of the s	

References

- 1. Robin Nixon, Learning PHP, MySQL & JavaScript, 6th Edition. O'Reilly Media, Inc., 2021, ISBN: 9781492093824
- 2. Chris Snyder, Thomas Myer, Michael Southwell, *Pro PHP Security: From Application Security Principles to the Implementation of XSS Defenses*, Apress; 2nd ed. Edition.
- 3. David Gourley, Brian Totty, Marjorie Sayer, Anshu Aggarwal, Sailu Reddy, *HTTP: The Definitive Guide (Definitive Guides)* 1st Edition, O'Reilly Media (2002).

9. Corroboration of course contents with the expectations of the epistemic community's significant representatives, professional associations and employers in the field of the academic programme

NA

10. Assessment

Activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Percentage of final grade
10.4 Course	Final evaluation	Oral exam: project presentation, questions from study resources	70%

 Final project must implement CRUD operation in an HTML5 responsive interface Oral evaluation: minimum one correct response or three partial correct responses, from 3-5 questions Participation in the first exam is predicated on attendance. Recovery is possible through supplemental activities, limited to 50% of the total number of courses and seminars 						
Submission date	Course leader signature	Seminar tutor signature				
Date of approval by Department		Department director signature				

Solving proposed assignments, quizz

30%

Signature of the Dean

Continous evaluation

10.5 Seminar/laboratory

10.6 Minimum performance standard

Data Date of approval by Faculty Council