

COURSE DESCRIPTION

1. Program details

University	"Lucian Blaga" University of Sibiu
Faculty	Engineering Faculty
Department	Department of Computer Science and Electrical Engineering
Main field of study	Computer Science and Information Technology
Level of education	Master
Specialization	Advanced Computing Systems

2. Course details

Course title	Practica profesională / Professional Internship			
Course code	Type of course	Year of study	Semester	Number of credits
mACS.105.SO	Facultativ	1	1	6
Evaluation type	Type of course (FD=fundamental discipline.; DD=domain discipline; SD=specialized discipline; CD=complementary discipline)			
Colocviu	CD			
Course instructor	Associated professor Daniel Morariu, PhD			
Seminar/lab/project instructor	Associate professor Daniel Morariu, PhD			

3. Estimated time

Course duration in the curriculum – number of hours per week				
Lecture	Seminar	Lab	Project (Partially Assisted)	Total
-	-	-	12	12
Course duration in the curriculum - Total of hours curriculum				
Lecture	Seminar	Lab	Project(Partially Assisted)	Total (<i>NOAD_{sem}</i>)
-	-	-	168	168

Distribution of hours for individual study		No. hours
Individual study using course handbooks, bibliography and notes		-
Additional documentation in library and on specialized electronic platforms		-
Preparing seminars / labs, homework, essays and portfolios		-
Tutoring		-
Exam preparation		-
Total hours for individual study (<i>NOSI_{sem}</i>)		-
Total hours per semester (<i>NOAD_{sem} + NOSI_{sem}</i>)		168

4. Prerequisites (if applicable)

Curriculum	Basic knowledge of programming plus domain knowledge to enable the
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	development of a dissertation.
Competencies	Bibliographic research skills and of software application development.

5. Conditions (if applicable)

course materials	
sem/lab/project materials	Developing and supporting the planned work. Laboratory with computers usually of the company where is carrying the internship.

6. Specific competences acquired

Professional competence	<ul style="list-style-type: none"> Developing skills for addressing complex real-world problems; Supply the background for advanced studies and research in the field; Understanding the ideas that underlie scientific research. Develop individual research skills and acquiring the ability to write and publish scientific papers.
Transversal competences	<ul style="list-style-type: none"> Professional approach and ethical conduct in scientific research. Developing team-work ability in order to perform some relatively complex applications. Collaborating with experts in other fields.

7. Objectives (based on the specific grid for the accumulated competences)

General objective	<ul style="list-style-type: none"> Identify the main sources of information. To accommodate master students with the practical requirements of the field of computer science. Preparing them to deal with the real challenges of the day-to-day work of their employees. Forming habits of concepts, methods and developing skills to use computer algorithms to address a variety of problems for specific topic;
Specific objectives	<ul style="list-style-type: none"> Identify roles and responsibilities in a large specialized team and applying effective relationship and work techniques within the team.

8. Contents

Course		No. hours
Total course hours:		-
Project (partially assisted)		No. hours
Project 1	Analysis and documentation of project requirements	30
Project 2	Project Planning	20
Project 3	Making "use-case" and development analysis documents	30
Project 4	Implementation of the project requirements	48
Project 5	Testing and debugging	20
Project 6	Developing the usage documentation.	10
Project 7	Developing the technical documentation	10
Total lab hours:		168

Teaching methods

<ul style="list-style-type: none"> Internet search, study in library, lectures, conversations, projects, exercises, individual study, homework assignments. 	Language of instruction	English
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References

Recommended reading	1. The bibliography is based on the chosen theme and approach.
	2.
More references	3.
	4.

9. Linking course content with expectations of the epistemic community representatives, professional associations and employers' representatives in the field related to the program

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10. Evaluation

Type	Evaluation criteria	Evaluation methods	Percentage in final grade	Obs.*
Project	Final exam	Oral presentation	70%	RFE
	Homeworks / Technical Reports	Weekly checked	30%	RPE
Minimum standard of performance				
<i>The final assessment will consist in an oral presentation of chosen theme.</i>				
<ul style="list-style-type: none"> Partial fulfilment (50%) of homework and technical reports given during the semester and partially developed application. 				

(*) REP – required for exam participation; nREP – not required for exam participation; RFE – required for final evaluation.

Date of completion:

Date of approval in the Department:

	Position, title, first name, surname	Signature
Course instructor	Associate professor eng. Daniel Morariu, PhD	
Head of department	Professor eng. Daniel VOLOVICI, PhD	