

COURSE GUIDE – short form

Academic year 2017 - 2018

Course name ¹	COMPUTER PROGRAMMING AND PROGRAMMING LANGUAGES (1)					Codul disciplinei		1 ISI 04	
Course type ²	DF	Category ³	DI	Year of study	1	Semester	1	Number of credit points	6

Faculty	Material Science and Engineering	Number of teaching and learning hours ⁴					
Field	Industrial Engineering	Total	L	T	LB	P	IS
Specialization	ISI	144	28	-	42	-	74

Pre-requisites from the curriculum ⁵	Compulsory	Not the case
	Recommended	Not the case

General objective ⁶	Initiation of students in knowing of concepts, theories and basic methods (enunciation, use, application) for achieving the specific technical documentation using a computer and office and CAD techniques.
Specific objectives ⁷	There are being cultivated IT abilities by simple task applications programming in engineering.
Course description ⁸	Computer structure; personal computer; serial architecture; hardware; software; operating system - Windows; basics of programming; algorithms; programming language; structured programming; Fortran: intrinsic data type; lexical athoms; expresions; intrinsic procedures; processing instructions; Fortran programmes – sequences of simple instructions; execution control; functions; subroutines.

Assessment		Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
Continuous assessment	Class tests along the semester -	week	%
	Activity during tutorials (open questions, software use)		50 %
	Assignments -	week	%
Final assessment	Final assessment form ¹¹	exam	50 % (minimum 5)
	Examination procedures and conditions: 1. Subject with closed questions ; tasks answer to closed questions ; working conditions -; percent 50 %; 2. Subject with closed questions ; tasks answer to closed questions ; working conditions -; percent 50 %; 3. Writing a program ; tasks corect use of programming instructions working conditions written; percent 40 %;		

Course organizer	Lecturer Ph.D.Eng. Bogdan PRICOP
Teaching assistants	Lecturer Ph.D.Eng. Bogdan PRICOP

¹Course name from the curriculum

² DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)

³ DI – imposed, DO –optional, DL – facultative (from the curriculum)

⁴ Points 3.8, 3.5, 3.6a,b,c, 3.7 from the Course guide – extended form (L-lecture, T-tutorial, LB-laboratory works, P-project, IS-individual study)

⁵ According to 4.1 – Pre-requisites - from the Course guide – extended form

⁶ According to 7.1 from the Course guide – extended form

⁷ According to 7.2 from the Course guide – extended form

⁸ Short description of the course, according to point 8 from the Course guide – extended form

⁹ For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period

¹⁰ A minimum grade might be imposed for some assessment stages

¹¹ Exam or colloquium