

COURSE GUIDE - short form
Academic year 2017-2018

Course name ¹	Computer programming and programming languages (2)					Course code		1SM10DF	
Course type ²	DF	Category ³	DI	Year of study	1	Semester	2	Number of credit points	5

Faculty	Material Science and Engineering	Number of teaching and learning hours ⁴					
Field	Materials Engineering	Total	L	T	LB	P	IS
Specialization	Material Science	120	28		28		64

Pre-requisites from the curriculum ⁵	Compulsory	- Computer programming and programming languages (1)
	Recommended	- Mathematical analysis

General objective ⁶	Knowledge and learning the concept of the probability calculus and mathematical statistics with applications assisted by computer in the industrial engineering. These techniques allow the construction of mathematical models through empirical methods in order to optimize the technological processes in the science of materials and engineering.
Specific objectives ⁷	Elements of the probability theory. The probability of random events. Random variables and distributions. Mathematical statistics. Quality, reliability, maintainability and availability of technological equipment through statistical methods.
Course description ⁸	Elements of the probability theory. The probability of random events. Random variables and distributions. Mathematical statistics. Quality, reliability, maintainability and availability of technological equipment through statistical methods.

Assessment		Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
Continuous assessment	Class tests along the semester	Week 7	10%
	Activity during tutorials/laboratory works/projects/practical work	Weekly	20%
	Assignments	Every 2 weeks-	10%
Final assessment	Final assessment form ¹¹	Colloquium	60%
	Examination procedures and conditions: 3 subjects with closed answer the question; working conditions - written response; 30% weight / subject		

Course organizer	Lecturer PhD. Eng. Vasile MANOLE
Teaching assistants	Lecturer PhD. Eng. Vasile MANOLE

¹Course name from the curriculum

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

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

⁴Points 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)

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

⁶According to 7.1 from the Course guide – extended form

⁷According 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