## COURSE GUIDE – short form

Academic year 2017-2018

Course name <sup>1</sup>	SUPERALLOYS				Course code			5MATAE DI 01		
Course type <sup>2</sup>	DID	Category <sup>3</sup>	DI	Year of study	5	Semester	1		No of credit points	6

Faculty	Materials Science and Engineering	Number of teaching and learning hours <sup>4</sup>				ning	
Field Materials Engineering		Total	С	S	L	Р	SI
Specialization	MATAE	112	28	-	14	-	70

Pre-requisites from the curriculum	Mandatory	-
	Recommended	-

Course objective <sup>5</sup>	Presenting the structure, the properties, the applications and main processing methods of superalloys
Specific objectives <sup>6</sup>	Conveying practical information concerning the production, fabrication, processing, designing, laboratory study and utilization of superalloys.
Course description <sup>7</sup>	General characterization of superalloys, superalloys microstructure and properties, physical metallurgy of Ni-based superalloys, single crystal superalloys for turbine blades, superalloys applications

	Assessment system	Schedule <sup>8</sup>	Percentage of the final grade (minimum grade) <sup>9</sup>		
Class tests during the semester			Week 1, 8		
Continuous assessment	Activity during tutorials/laborate works/projects/practical work	Week.1-14	20 %		
	Specialty home works	Week. 14	20 %		
	Final assessment form <sup>10</sup>	Exam	Week. 14		
Final assessment	Tasks and their development conditions: Written exam under the form of grid test with 40 questions, each one with 4 variants among which one correct			60 %	

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<sup>&</sup>lt;sup>1</sup> Course name from the curriculum

<sup>10</sup> Exam or colloquium

<sup>&</sup>lt;sup>2</sup> DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)

<sup>&</sup>lt;sup>3</sup> DI – imposed, DO –optional, DL – facultative (from the curriculum)

 <sup>&</sup>lt;sup>4</sup> Points 3.8, 3.5, 3.6a,b,c, 3.7 from the Course guide – extended form
<sup>5</sup> According to 7.1 from the Course guide – extended form
<sup>6</sup> According to 7.2 from the Course guide – extended form

<sup>&</sup>lt;sup>7</sup> Short description of the course, according to point 8 from the Course guide – extended form

<sup>&</sup>lt;sup>8</sup> For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period

<sup>&</sup>lt;sup>9</sup> A minimum grade might be imposed for some assessment stages