

# COURSE GUIDE – short form

Academic year 2021 - 2022

Course name <sup>1</sup>	<b>THERMAL AND THERMOCHEMICAL TREATMENTS (2)</b>				Discipline code		<b>4 IPM 08</b>		
Course type <sup>2</sup>	<b>DS</b>	Category <sup>3</sup>	<b>DI</b>	Year of study	4	Semester	<b>8</b>	Number of credit points	<b>5</b>

Faculty	Material Science and Engineering				Number of teaching and learning hours <sup>4</sup>					
Field	Materials Engineering				Total	L	T	LB	P	IS
Specialization	IPM				<b>56</b>	<b>28</b>	-	<b>28</b>	-	<b>28</b>

Pre-requisites from the curriculum <sup>5</sup>	Compulsory	-
	Recommended	-

General objective <sup>6</sup>	Aspects about the technological methods used in materials processing to improve the parts properties through chemical treatments
Specific objectives <sup>7</sup>	Thermochemical treatments on part surface and improved properties
Course description <sup>8</sup>	<ol style="list-style-type: none"> <li>1. Thermochemical treatments with metals</li> <li>2. Copper thermochemical treatments</li> <li>3. Surface depositions on metals</li> <li>4. Characterization methods of deposited layers</li> </ol>

Assessment		Schedule <sup>9</sup>		Percentage of the final grade (minimum grade) <sup>10</sup>
A. Final assessment form <sup>11</sup> exam	Class tests along the semester	%	week	50 % (minimum 5)
	Home works	%		
	Other activities	%	week	
	Examination procedures and conditions: 1. Subject with open questions, working conditions oral, percent 50 %; 2. -, working conditions -, percent %; 3. -, working conditions -, percent %	50 % (minimum 5)	exam period	
B. Seminar	Activity during seminar			% (minimum 5)
C. Laboratory	Activity during laboratory			50 % (minimum 5)
D. Project	Activity during project			% (minimum 5)
Course organizer	<b>lecturer phd. eng. Achiței Dragoș Cristian</b>			
Teaching assistants	<b>asisstant phd. eng. Bălțatu Mădălina Simona</b>			

<sup>1</sup>Course name from the curriculum

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

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

<sup>4</sup> 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)

<sup>5</sup> According to 4.1 – Pre-requisites - from the Course guide – extended form

<sup>6</sup> According to 7.1 from the Course guide – extended form

<sup>7</sup> According to 7.2 from the Course guide – extended form

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

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

<sup>10</sup> A minimum grade might be imposed for some assessment stages

---

<sup>11</sup> Exam or colloquium