

# COURSE GUIDE – short form

Academic year 2024-2025

Course name <sup>1</sup>	MATERIALS FOR CONSTRUCTION					Course code	4.SM.05.DS			
Course type <sup>2</sup>	DS	Category <sup>3</sup>	DO	Year of study	IV	Semester	7	Number of credit points	4	

Faculty	Materials Science and Engineering					Number of teaching and learning hours <sup>4</sup>					
Field	Materials engineering					Total	L	T	LB	P	IS
Specialization	Materials science					100	28	-	14	-	58

Pre-requisites from the curriculum <sup>5</sup>	Compulsory	not necessary
	Recommended	not necessary

General objective <sup>6</sup>	Understanding the types of metallic materials used in constructions and choosing the properly material depending on the metallic construction type.
Specific objectives <sup>7</sup>	<ul style="list-style-type: none"> <li>Learning theoretical knowledge related to physical and chemical phenomena, based on metallic materials proprieties used in construction.</li> <li>Achieving the ability to research and analyze the construction metallic materials using a variety of research methods.</li> </ul>
Course description <sup>8</sup>	Definition and classification of steel according to European Standards. Technological, utility and mechanical properties of steels used for metallic constructions. Non-alloy steel constructions for general use Non-alloy steel for reinforcement and precompression concrete Steel Pipes Steel used for metallic constructions and offshore platforms. Steel for the viaducts, bridges and railway road. Stainless steels. Technological features.

Assesment			Schedule <sup>9</sup>	Percentage in the final grade (minimum grade) <sup>10</sup>
A. Final assessment form <sup>11</sup> :	Class tests along the semester	%		50%
	Home works	%		
	Other activities	%		
	Examination procedures and conditions: Probe 1: Oral Examination. The Exam Question papers contains two questions, with a closed answer, equal weight.	100%	Exam period	
B. Seminar	Activity during seminar			0%
C. Laboratory	Acttivity during laboratory			50 %
D. Project	Activity during project			0%

Course organizer	Prof. dr. eng. Sergiu STANCIU	
Teaching assistants	Dr.eng. Daniela CHICET	

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

<sup>2</sup> DF – fundamental, DID – 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