

# COURSE GUIDE – short form

Academic year 2017-2018

Course name <sup>1</sup>	<b>Technical Drawing and Infographics (2)</b>					Course code	1SM12DF			
Course type <sup>2</sup>	DF	Category <sup>3</sup>	DI	Year of study	1	Semester	2	Number of credit points	6	

Faculty	Material Science and Engineering	Number of teaching and learning hours <sup>4</sup>					
Field	Materials engineering	Total	L	T	LB	P	IS
Specialization	Materials science	144	28	-	42	-	74

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

General objective <sup>6</sup>	Applying the basic principles and methods of technical design in computer aided design.
Specific objectives <sup>7</sup>	<ul style="list-style-type: none"> <li>• Knowledge of principles of and basics of computer aided design editing and graphics processing for engineering objects.</li> <li>• Fundamentals of mathematical modeling and graphical representation of geometric objects.</li> <li>• Basic concepts of geometric wireframe, surfaces and solids modeling.</li> <li>• Using computer engineering graphics softwares.</li> </ul>
Course description <sup>8</sup>	Course (Introduction, geometric transformation, object visualization, wireframe modeling of objects, surface modeling of objects, solid modeling of objects, infographic applications in materials engineering), laboratory (User interface, drawing objects, drawing polylines, properties, editing commands, hatch patterns, coordinate filters, dimensioning elements in the drawing, creation of blocks, realization of a three-dimensional model, recapitulative exercises)

Assessment		Schedule <sup>9</sup>	Percentage of the final grade (minimum grade) <sup>10</sup>
Continuous assessment	Class tests along the semester	7-th week	15 %
	Activity during tutorials/laboratory works/projects/practical work	Weekly	30 %
	Assignments	Semester	10 %
Final assessment	Final assessment form <sup>11</sup>	Exam period	40 %
	Examination procedures and conditions: 1. Course theory 2 subjects; Oral examination		

Course organizer	Lecturer. PhD. Eng. AXINTE Mihai
Teaching assistants	Lecturer. PhD. Eng. AXINTE Mihai

<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

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<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