

# COURSE GUIDE – short form

Academic year 2017-2018

Course name <sup>1</sup>	<b>Machine Tools</b>					Course code	3ISI13DID		
Course type <sup>2</sup>	DID	Category <sup>3</sup>	DO	Year of study	3	Semester	6	Number of credit points	3

Faculty	Material Science and Engineering	Number of teaching and learning hours <sup>4</sup>					
Field	Industrial Engineering	Total	L	T	LB	P	IS
Specialization	Safety Engineering in Industry	84	28	-	28	-	28

Pre-requisites from the curriculum <sup>5</sup>	Compulsory	Not the case
	Recommended	Not the case

General objective <sup>6</sup>	Development of knowledge, thinking and technical preparation in the field of machine-tools, aiming the understanding of operation principles, in view of completing the general preparation in industrial engineering field.
Specific objectives <sup>7</sup>	Knowing the major types of machine tools operating in the industrial practice, the building and operation as well as their understanding as working equipment from the perspective of risk potential.
Course description <sup>8</sup>	Machine –tools kinematics, basic motions, kinematic chain; change gear and feeding box; electric commands; normal lathe; lathe with horizontal face plate; monitor lather; automatic and semi-automatic lathe; drilling machines; boring machines; milling machines; planning machines; slotters; broaching machines; grinding machines.

Assessment		Schedule <sup>9</sup>	Percentage of the final grade (minimum grade) <sup>10</sup>
Continuous assessment	Class tests along the semester		%
	Activity during tutorials/laboratory works/projects/practical work		50 %
	Assignments		%
Final assessment	Final assessment form <sup>11</sup>	colloquium	Wk 14
	Examination procedures and conditions: 1. Oral examination: two closed questions; equal weight		50 %

Course organizer	Assoc.Prof.PhD.Eng. Gheorghe Bădărău
Teaching assistants	Assoc.Prof.PhD.Eng. Gheorghe Bădărău

<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