

# COURSE GUIDE – short form

Academic year 2016-2017

Course name <sup>1</sup>	<b>Machine and equipment vibrations</b>					Course code	2ISI03DID			
Course type <sup>2</sup>	DID	Category <sup>3</sup>	DI	Year of study	2	Semester	3	Number of credit points	4	

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	None
	Recommended	None

General objective <sup>6</sup>	Using the core evaluation criteria and methods for identifying, analyzing and assessing the qualitative and quantitative phenomena of vibrating.
Specific objectives <sup>7</sup>	<ul style="list-style-type: none"> <li>• Identifying the sources of vibration / noise;</li> <li>• Knowledge of the main parameters of vibration and ways to reduce / eliminate them;</li> <li>• the ability to anticipate possible effects / process and interpret the results of a study on the effect of vibration in practical situations.</li> </ul>
Course description <sup>8</sup>	Mechanical vibration, noise, vibroacoustic isolation, monitoring vibroacustical.

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	2h /2 weeks	50 %
	Assignments	-	%
Final assessment	Final assessment form <sup>11</sup>	Exam	50 %
	Examination procedures and conditions: 1. Theoretical close ended questions, orally: 30%; 2. Open ended questions, orally: 50%; 3. Identifying vibration sources for some theoretical examples: 20%.		

Course organizer	Prof. PhD. Eng. Mihai SUSAN
Teaching assistants	Prof. PhD. Eng. Adrian DIMA

<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