

# COURSE GUIDE – short form

Academic year 2017 - 2018

Course name <sup>1</sup>	<b>TRANSDUCERS AND MEASURING TECHNIQUES</b>					Codul disciplinei	<b>3 EPI 10</b>		
Course type <sup>2</sup>	<b>DS</b>	Category <sup>3</sup>	<b>DO</b>	Year of study	3	Semester	<b>5</b>	Number of credit points	<b>4</b>

Faculty	Material Science and Engineering	Number of teaching and learning hours <sup>4</sup>					
Field	Mechanical Engineering	Total	L	T	LB	P	IS
Specialization	EPI	<b>42</b>	<b>28</b>	-	<b>14</b>	-	

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

General objective <sup>6</sup>	Knowing of the modern techniques of the automatic measurements of the hot processes parameters and of the constructive-functional principles
Specific objectives <sup>7</sup>	Knowing of the information about the role and the placement of the transducers in the automatic systems; the general structure of the transducer; characteristics and general performances, constructive parts; sensitive elements and adaptors; transducers for different kinds of measurements.
Course description <sup>8</sup>	Sensitive elements and adaptors; general principles used for the selection of the transducers. Transducers for electric variables; radiation receiver; temperature detector; pressure detector; force and moment detectors; vibration and speed detectors.

Assessment		Schedule <sup>9</sup>	Percentage of the final grade (minimum grade) <sup>10</sup>
Continuous assessment	Class tests along the semester 1	week 8	10 %
	Activity during tutorials/laboratory works/projects/practical work		20 %
	Assignments -	week	10 %
Final assessment	Final assessment form <sup>11</sup>	colloquium	60 % (minimum 5)
	Examination procedures and conditions: 1. Subject with closed questions ; tasks answer to closed questions ; working conditions written; percent 60 %; 2. - ; tasks - ; working conditions -; percent %; 3. - ; tasks - ; working conditions -; percent %;		

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Teaching assistants	<b>As.Ph.D.Eng. Dumitru Doru BURDUHOS NERGIS</b>

<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

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<sup>11</sup> Exam or colloquium