

# COURSE GUIDE – short form

Academic year 2014-2015

Course name <sup>1</sup>	Alternative energies in agrifood industry					Course code		MTNIA.DI. DA.201	
Course type <sup>2</sup>	DA	Category <sup>3</sup>	DI	Year of study	II	Semester	3	Number of credit points	7

Faculty	of Mechanics	Number of teaching and learning hours <sup>4</sup>						
Field	Master	Total	L	T	LB	P	IS	
Specialization	Unpollutant technology in agrifood industry	42	28		14			

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

General objective <sup>6</sup>	Analysis of the construction and operation of machinery for obtaining and use of alternative energy in the agrifood industry
Specific objectives <sup>7</sup>	Analysis of the main streams of primary energy conversion technology
Course description <sup>8</sup>	General principles for obtaining alternative energies. Procedures and equipment for production and use of fossil fuels in primary energy. Obtaining biofuels. The conversion of primary energy into thermal energy biofuels, mechanical or electrical. The use of wind energy. Utilization of Solar Energy. Using the kinetic and potential energy of water. The use of the thermal energy of the earth's crust and natural carriers. Primary energy conversion possibilities. Scheme of primary energy conversion technology in final energy

Assessment			Schedule <sup>9</sup>	Percentage of the final grade (minimum grade) <sup>10</sup>
Continuous assessment	Class tests along the semester 1 evaluation test		Week 9	20 %
	Activity during tutorials/laboratory works/projects/practical work		Week 1-14	30 %
	Assignments			%
Final assessment	Final assessment form <sup>11</sup>	exam	session	50 %
	Examination procedures and conditions: 1. Evaluation test of knowledge; percentage 50 %			

Course organizer	Ioan BĂISAN, Assoc.Prof. PhD	
Teaching assistants	Alina Corina DUMITRAȘCU, Assist.Prof.PhD	

<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