

# COURSE GUIDE – short form

Academic year 2014 - 2015

Course name <sup>1</sup>	<b>Quality Engineering</b>					Course code	213.DI.DID		
Course type <sup>2</sup>	DID	Category <sup>3</sup>	DI	Year of study	IV	Semester	8	Number of credit points	2

Faculty	Mechanical Engineering	Number of teaching and learning hours <sup>4</sup>					
Field	Automotive Engineering Mechanical Engineering Mechatronics and Robotics	Total	L	T	LB	P	IS
Specialization	SET, AR, MAIA, MCT, ROB, IM	42	28		14		

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

General objective <sup>6</sup>	To provide students with knowledge to design quality into products that satisfy customers.
Specific objectives <sup>7</sup>	<ul style="list-style-type: none"> <li>To understand the basic concepts of quality engineering.</li> <li>To enhance the ability to use quality engineering and management techniques to implement an effective quality system or programme.</li> <li>To provide students with knowledge to design quality into products.</li> </ul>
Course description <sup>8</sup>	Introduction to basic concepts of quality products and quality management. Tools and techniques of quality management. Management quality systems and ISO quality standards. Techniques and instruments for product quality planning. Quality instruments for product design. Quality control. Quality audits. Quality improvement tools. Quality cost principles.

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	week 14	50 %
	Examination procedures and conditions: 1. Written test; percent of the final grade 50 % 2. Oral presentation of specific problems; percent of the final grade 50 %			

Course organizer	Professor Virgil Atanasiu, Ph.D.	
Teaching assistants	Sn. Lecturer Vasile Merticaru, Ph.D.	

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<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