

## Detailed Curriculum

Field: *Mechanical engineering*Specialization: *Installations and Equipment for Mechanical Processes (MIEP)*Form of study: *day courses*Duration of study: *2 years*Title obtained: *Engineer*Valid beginning with academic year: *2010/2011*

## IV. TABLE OF SUBJECTS:

Nr. crt.	Name of subject	Subject code	Semester 1 (14 weeks)				Semester 2 (14 weeks)				Nr. cred.	Form of assessment	
			C	S	L	P	C	S	L	P			
<b>YEAR I</b>													
1.	Mathematical methods in mechanical engineering	2MMP1OS01	2	2	-	-	-	-	-	-	5	E1	
2.	Design engineering	2MMP1OD02	2	-	1	1	-	-	-	-	6	E1	
3.	Mechanical systems engineering I	2MMP1OD03	2	-	2	-	-	-	-	-	6	E1	
4.	Unit transfer processes and operations I	2MMP1OD04	2	-	2	-	-	-	-	-	5	C1	
5.	Unconventional materials and technologies	2MMP1OD05	2	-	2	-	-	-	-	-	5	E1	
6	Unit transfer processes and operations II	2MMP2OD06	-	-	-	-	2	-	1	1	5	E2	
7	Mechanical systems engineering II	2MMP2OD07	-	-	-	-	2	-	1	1	5	E2	
8.	Machines for infrastructure works I	2MMP2OS08	-	-	-	-	2	1	1	-	6	E2	
9.	Fluid – based processing installations and equipment I	2MMP2OS09	-	-	-	-	2	-	1	1	6	E2	
10	Optional subject 11	2MMP2AD10	-	-	-	-	2	-	2	-	5	C2	
	Research activity				84				84		3 3	V1 V2	
<b>Nr. of hours</b>			<b>10</b>	<b>2</b>	<b>7</b>	<b>1</b>	<b>10</b>	<b>1</b>	<b>6</b>	<b>3</b>	-	-	
<b>Total didactic hours / week</b>			<b>20</b>				<b>20</b>						
<b>Number of credits/ semester</b>												<b>30</b>	
<b>YEAR II</b>													
11.	Machines for infrastructure works II	2MMP3OS11	2	-	1	1	-	-	-	-	6	E3	
12.	Fluid – based processing installations and equipment II	2MMP3OS12	2	-	1	1	-	-	-	-	6	E3	
13.	Optional subject 21	2MMP3AD13	2	-	2	-	-	-	-	-	5	C3	
14.	Optional subject 22	2MMP3AD14	2	-	2	-	-	-	-	-	5	E3	
15.	Evaluation of energy efficiency of industrial processes	2MMP3OD15	2	-	2	-	-	-	-	-	5	E3	
16.	Monitoring and evaluation in transport	2MMP4OS16	-	-	-	-	3	1	1	-	5	E4	
17	Basics of design, experimental data acquisition and processing	2MMP4OS17	-	-	-	-	3	1	1	-	5	E4	
18	Research, documentation and elaboration of dissertation	2MMP4OS18	-	-	-	-	-	-	5	5	20	E4	
	Research activity				84						3	V3	
<b>Nr. of hours</b>			<b>10</b>	<b>-</b>	<b>8</b>	<b>2</b>	<b>6</b>	<b>2</b>	<b>7</b>	<b>5</b>			
<b>Total didactic hours/week</b>			<b>20</b>				<b>20</b>						
<b>Number of credits / semester</b>												<b>30</b>	<b>30</b>

\* Semestrial research activity concludes with a research report presented in front of the department and graded.

