



**OVERVIEW**  
**of the specializations and places available at the entry examination for master degree programmes**  
**July – September 2009 exam sessions**

No.	Faculty/ Methodology of admission	Specialization	Number of places		TOTAL	
			Tuition free	Self financed	Tuition free	Self financed
1.	Faculty of Automation and Computer Science	1.1. Automotive embedded software	25	15	332	180
		1.2. Informatic systems in healthcare	25	15		
		1.3. Automatic systems engineering	51	25		
		1.4. Applied informatics systems	51	25		
		1.5. Computer engineering	52	25		
		1.6. Software engineering	52	25		
		1.7. Information technology	51	25		
		1.8. Informatic technologies	25	25		
2.	Faculty of Industrial Chemistry and Environmental Engineering	2.1. Processed natural products control and homologation	20	10	120	60
		2.2. Chemistry and engineering of organic processes	20	10		
		2.3. Food chemistry and technology	20	10		
		2.4. Oxidic materials engineering	20	10		
		2.5. Inorganic compounds engineering and environmental protection	20	10		
		2.6. Environmental engineering and management in industry	20	10		
3.	Faculty of Civil Engineering	3.1. Retrofitting of construction	20	20	166	180
		3.2. Building structures	26	20		
		3.3. Optimisation and upgrading of installation systems	20	20		
		3.4. Transport infrastructures	20	20		
		3.5. Cadastre and immovable assets evaluation	20	20		
		3.6. Advanced design of steel and composite structures	20	20		
		3.7. Foundation systems for special construction	20	20		
		3.8. Advanced design of steel and composite structures	20	20		
		3.9. Evaluating and developing the real estate	0	20		
4.	Faculty of Electronics and Telecommunications	4.1. Intelligent systems electronics	30	10	205	70
		4.2. Advanced techniques in electronics	30	10		
		4.3. Telecommunications networks engineering	30	10		
		4.4. Multimedia technologies	30	10		
		4.5. Electronic instrumentation	30	10		

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			Tuition free	Self financed	Tuition free	Self financed
		4.6. Biomedical engineering	25	10		
		4.7. Signals processing	30	10		
5.	Faculty of Electrical Engineering	5.1. Power electrical and electronics engineering	55	25	111	50
		5.2. Power system control	56	25		
6.	Faculty of Hydrotechnical Engineering	6.1. Optimization of hydrotechnical systems	15	10	60	40
		6.2. Optimization of sanitary engineering and environmental protection systems	15	10		
		6.3. Engineering and sustainable development	15	10		
		6.4. Environmental protection engineering	15	10		
7.	Faculty of Management in Production and Transportation	7.1. Master in business administration	60	30	132	60
		7.2. Competitiveness engineering and management	42	20		
		7.3. Engineering and management of logistic systems	30	10		
8.	Faculty of Mechanical Engineering	8.1. Quality engineering in mechatronics and robotics	19	10	300	379
		8.2. Hydrodynamics of hydraulic machinery and systems	16	15		
		8.3. Process equipment manufacturing optimization	0	20		
		8.4. Ecological energy applications in the fields of thermal and transportation vehicles	16	15		
		8.5. Integrated engineering	15	15		
		8.6. Engineering and exploitation of road vehicles	0	20		
		8.7. Labour relationships engineering, health and safety	0	30		
		8.8. Advanced techniques in road transportation	17	15		
		8.9. Plastic and composite parts engineering	17	15		
		8.10. Quality management of technological processes	16	15		
		8.11. Implants, intelligent prosthetics and biomechanical evaluation	24	4		
		8.12. Robotics systems with artificial intelligence	19	10		
		8.13. Modern railway vehicles	15	15		
		8.14. Equipments and advanced miniature techniques	0	20		
		8.15. Ergo engineering in mechatronics	15	15		
		8.16. Mechatronics integration in organizational communication	0	20		
		8.17. Mechatronics engineering in optometry	0	20		
		8.18. Dynamics and vibrations of machines and equipments	16	15		
		8.19. Advanced mechanical engineering	15	15		
		8.20. Advanced materials and technologies	17	15		
		8.21. Industrial design and CNC manufacturing systems	15	15		
		8.22. Integrated systems for agro-food production	17	15		
		8.23. Power system engineering for road vehicles	16	15		
		8.24. Productive welding processes in shielding gases environments	15	15		
9.	Faculty of Engineering in Hunedoara	9.1. Advanced systems for industrial utilization of the electrical energy	28	5	142	25
		9.2. Advanced methods and resorts in designing mechanical systems	25	5		

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			Tuition free	Self financed	Tuition free	Self financed
		9.3. Informatics techniques in electrical engineering	33	5		
		9.4. Advanced materials and technologies for the automotive industry	28	5		
		9.5. Advanced proceedings for processing metallic materials	28	5		
10.	Faculty of Architecture	10.1. Rehabilitation of architectural environments and architectural surfaces	10	5	20	20
		10.2. Urban planning	10	15		
11.	Department of Mathematics	11.1. Mathematical models in engineering	20	5	20	5
12.	Fundamental Physics of Engineering	12.1. Renewable energies – Solar Energy	20		20	5
<b>TOTAL GENERAL</b>					<b>1628</b>	<b>1074</b>