



**ROMANIA**  
**MINISTRY OF NATIONAL EDUCATION**  
**‘VASILE ALECSANDRI’ UNIVERSITY OF**  
**BACAU**



**Faculty of Engineering**

**Calea Mărășești, Nr. 157, Bacău, 600115, Tel./Fax  
+40 234 580170**

**<http://inginerie.ub.ro>; e-mail: [decaning@ub.ro](mailto:decaning@ub.ro)**

**Field of Study: Mechatronics and Robotics**

**Study Programme: Advanced Mechatronics**

**2018 – 2019 academic year**

**CURRICULUM**  
**1st year of study**

No	Subject	Number of ECTS credits	Examination form	Semester
1	Modeling and simulation of industrial processes	4	W	1
2	Processing of experimental data	6	W	1
3	Research and development management	9	W	1
4	Resources valorisation	9	W	1
5	Ethics and academic integrity	2	O	1
6	Advanced methods of microcontroller programming	6	W	2
7	Advanced mechatronic systems	6	W	2
8	Virtual instrumentation for control systems	5	W	2
9	Advanced mechatronics digital control systems	5	W	2
10	Applicative research project 1	4	M	2
11	Research training (90 hours)	4	M	2

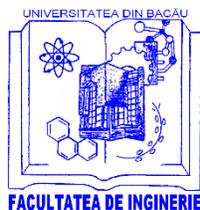
W- written exam

O – oral exam

M – midterm exam

Dean,  
Prof.Ph.D.Eng. Valentin Zichil

Head of Department,  
Senior lecturer Ph.D. Eng. Catalin Drob



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**Study Programme: Advanced Mechatronics**

**2018 – 2019 academic year**

**CURRICULUM**  
**2nd year of study**

No	Subject	Number of ECTS credits	Examination form	Semester
1	Optimization of mechanical structures and mechatronic systems	7	W	1
2	Advanced techniques for controlling electrical power systems	7	W	1
3	Modern methods of analysis for hydraulic and pneumatic systems	6	W	1
4	Modern applications of sustainable development in advanced mechatronics	6	W	1
5	Applicative research project 2	4	M	1
6	Research and design	10	M	2
7	Training for Master's degree final project preparation	10	P/F	2
8	Master's degree final project preparation	10	M	2

W- written exam

M – midterm exam

P/F – pass/fail

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