

ROMANIA
'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

Field: Mechatronics and Robotics

Study programme: Advanced mechatronics

2022 – 2023 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 | P | 2 |
| 11 | Research training (90 hours) | 4 | P | 2 |

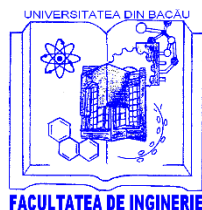
W- written exam

O – oral exam

P- partial exam

Dean,
Assoc. Prof. Ph.D. Eng.
Mirela Panainte-Leh du

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



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2022 – 2023 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 | P | 1 |
| 6 | Research and design | 10 | P | 2 |
| 7 | Training for Master's degree final project preparation | 10 | P/F | 2 |
| 8 | Master's degree final project preparation | 10 | P | 2 |

W- written exam

P- partial exam

P/F – pass/fail

Dean,
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