

Military University of Technology





Faculty of Mechatronics, Armament and Aerospace





INTERNSHIP

1) ARMAMENT AND MISSILE TECHNOLOGY 2) AEROSPACE TECHNOLOGY

Lt. Col. Konrad Wojtowicz



Internship on Technology





Where: Military University of Technology, Warsaw, POLAND Faculty of Mechatronics, Armament and Aerospace

engineering MILITARY CADETS For whom:

2 months How long:



When:

Autumn 2022

Armament and Missile Technology: 29 August – 28 October 2022 Aerospace Technology: 12 September – 11 November 2022



Internship on Aerospace Technology Previous editions



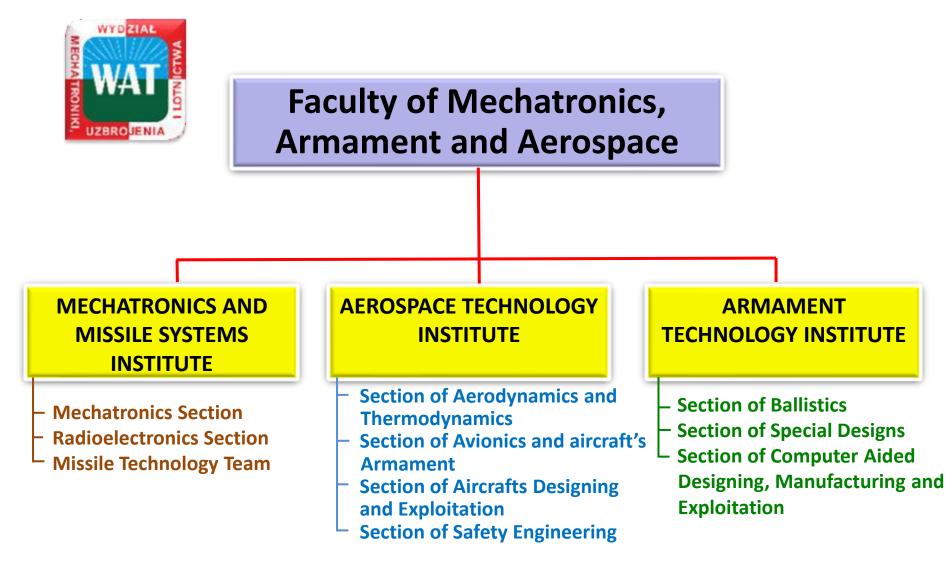
- ✓ Autumn 2018 Bulgaria
- ✓ Winter 2019 Bulgaria
- ✓ Autumn 2019 Romania / Hungary / Bulgaria
- ✓ Autumn 2021– Romania





Organization

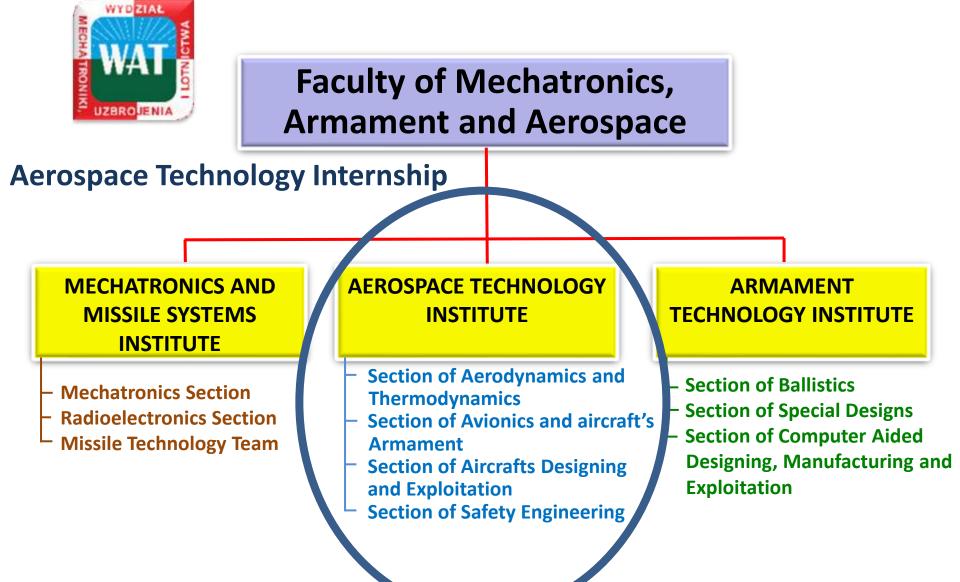






Organization



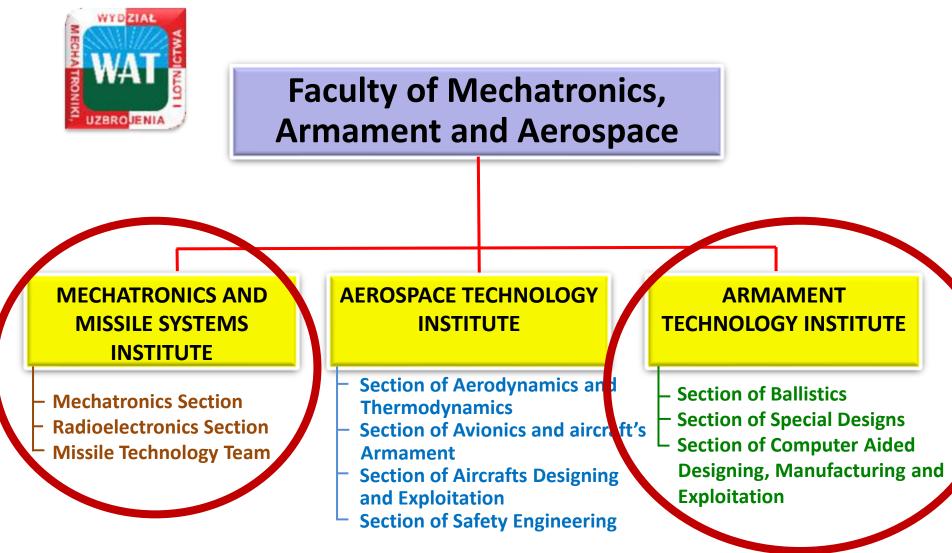




Organization

Faculty of Mechatronics, Armament and Aerospace





Armament and Missile Technology Internship



Research achievements

Faculty of Mechatronics, Armament and Aerospace





Modular Rifle System "GROT"

Augmented reality enabled training of the missile sets operators



Internship Curriculum





V



2 months / total 300 h / 240 h with supervisor

•	Fundamentals of control theory in MATLAB / LabVIEW / Quanser / Festo Design and simulation of mechatronic systems in MATLAB-Simulink PCBs design methodology in Altium Designer Rapid prototyping in LabVIEW Modelling and reconstruction of airframe structure in CAD Fundamentals of aircraft designing Some issues of airframe aircraft maintenance	1 w e k	
•			
•	Fundamentals of flight simulators		1
•	Fundamentals of aerospace construction technologies	1	
•	Fundamentals of aerodynamics and thermodynamics	-	
•	Fundamentals of air armament systems	d	
•	Fundamentals of robotics	а	
•	Fundamentals of design, manufacture and maintenance of mechatronic system		

• Some issues of constructions of special military systems.

































Military University of Technology

Institute of Armament Technology Small Arms Laboratory































Institute of Armament Technology Artillery Laboratory







Institute of Armament Technology Artillery Laboratory







Institute of Armament Technology Artillery Laboratory









































Faculty of Mechatronics, Armament and Aerospace



Missile Control Systems Workshop





Faculty of Mechatronics, WAT Armament and Aerospace



Missile Technology Workshop







































Faculty of Mechatronics, Armament and Aerospace



Middle Range Air Defence System Laboratory



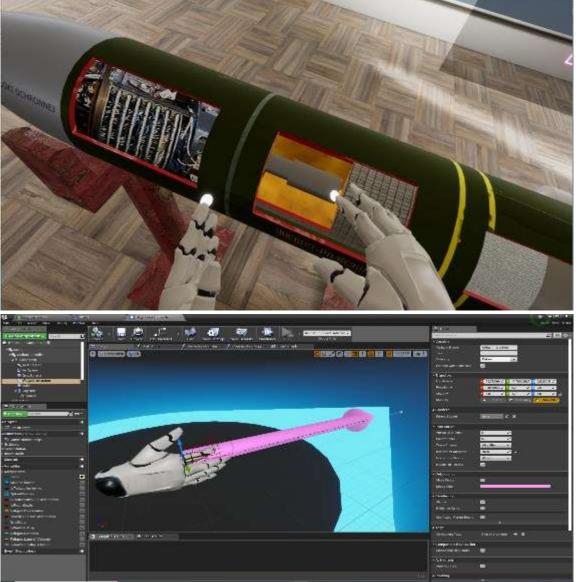




Virtual Missile Laboratory









Virtual Robotics Workshop







Robotics Workshop











Institute of Mechatronics and Missile Systems

Workshop of Intelligent Buildings













































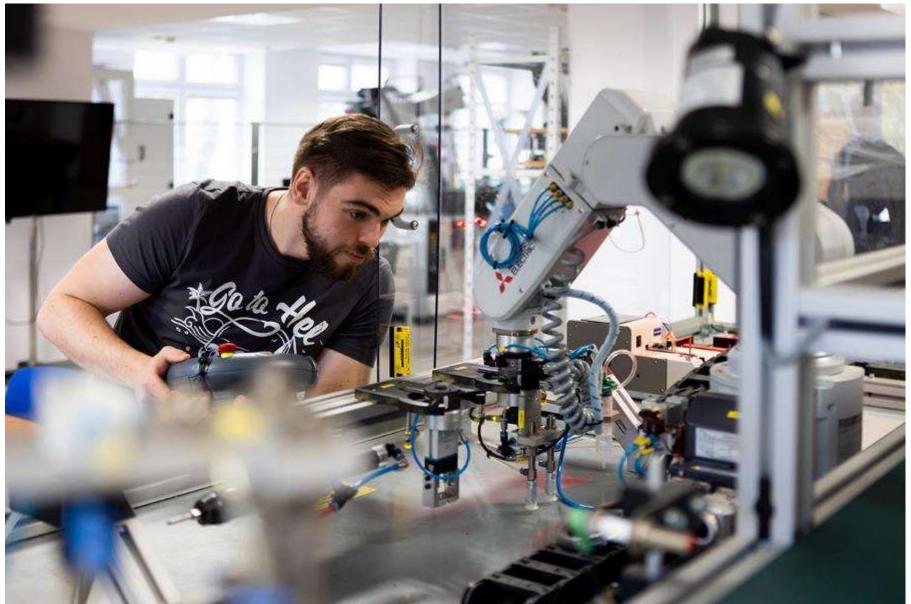






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Aerospace Technology Institute **Aerodynamics Laboratory**







Aerospace Technology Institute **Aerodynamics Laboratory**







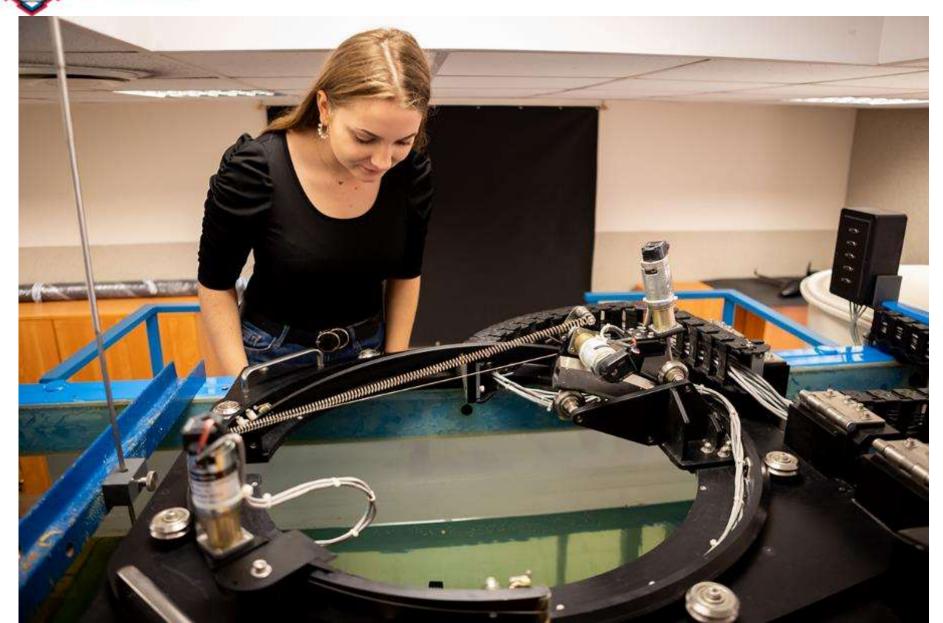
Aerospace Technology Institute **Aerodynamics Laboratory**





Aerospace Technology Institute **Aerodynamics Laboratory**



















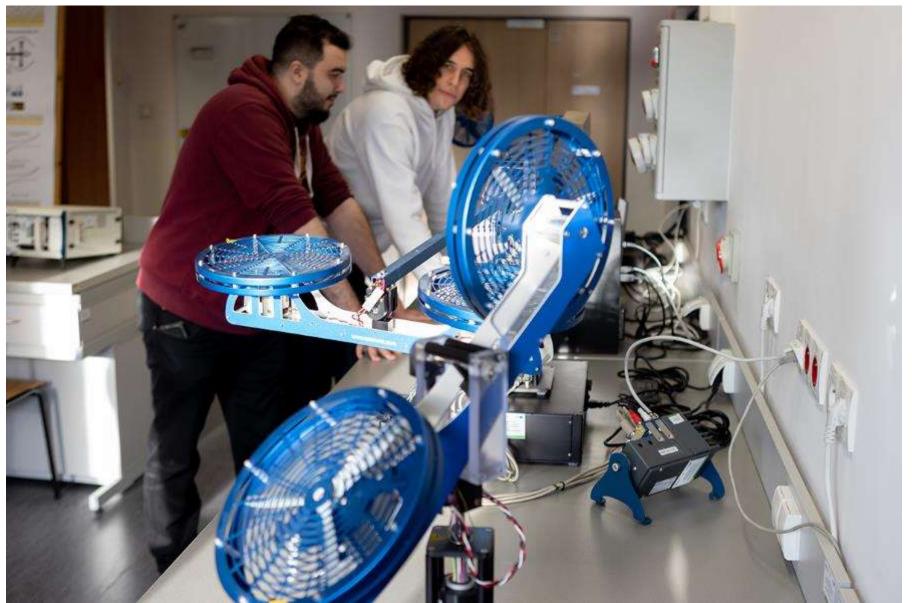














Aerospace Technology Institute Endurance Research Laboratory

































Aerospace Technology Institute Aircraft Propulsion Systems Laboratory

























Aerospace Technology Institute Avionics Laboratory







Aerospace Technology Institute Flight Simulators Workshop















Aerospace Technology Institute Flight Simulators Workshop







Aerospace Technology Institute Flight Simulators Workshop







Aerospace Technology Institute Flight Simulators Workshop







Aerospace Technology Institute Flight Simulators Workshop







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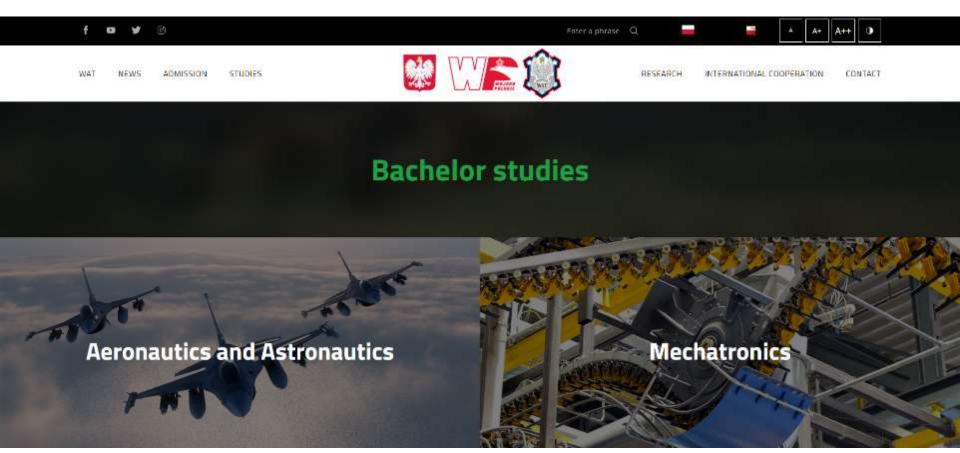
Full-time studies in English

Faculty of Mechatronics, Armament and Aerospace



7 semesters BSc courses

- 1) Aeronautics and Astronautics
- 2) Mechatronics







INTERNSHIPS:

Armament and Missile Technology:
August – 28 October 2022
Aerospace Technology:
September – 11 November 2022

FULL SPRING SEMESTERS:

- 1) Mechatronics
- 2) Aeronautics and Astronautics

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Faculty of Mechatronics, Armament and Aerospace



Thank you for your attention!





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