

# “HENRI COANDĂ” AIR FORCE ACADEMY



# ERASMUS+

BOOKLET



# "HENRI COANDĂ" AIR FORCE ACADEMY



**BRASOV**  
**2024**



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# Historical milestones and tourist attractions in Braşov

## ► The Council House

The Council Square (Piaţa Sfatului in Romanian, former Marktplatz in German, Főtér or Tanács tér in Hungarian) is located in the historic centre of Braşov, Romania. It obtained its right to hold markets in 1520, but it has been the place for weekly and annual markets since 1364, being visited by merchants from the country and abroad. It is surrounded by 18th–19th century houses, most of which are historical monuments.

A pillory, in the middle of the square, was used as a means for public humiliation, punishment and scorn. Witches were also punished here, but the head of the shoemaker guild, Stefan Stenert, who opposed the entry of the Austrian army into Braşov, was also beheaded here in 1688. Until 1892, there were two wells in the square.



The most important building in the square is the former Council House (Casa Sfatului), which was built in 1420 and is located in the middle of the square. This now houses the Braşov County Museum of History.

## ► The Black Church



Black and unshakable

The Black Church, built in the very center of Braşov, was erected in 1380 as a Catholic church, dedicated to the Virgin Mary, and subsequently passed into the hands of the Evangelicals.

Between the XV and XVII centuries the church was affected by several earthquakes, as well as a violent fire, in 1689, that left the walls of the ruin blackened by smoke. This was how the church acquired its current name.

The Black Church of Braşov hosts the second largest collection of Oriental carpets in Europe, most of them dating from the XV and XVI centuries. Approximately 110 such carpets are on display inside the church, creating a very vivid and colorful atmosphere, in stark contrast with the “blackness” of the rest of the church.

At 89 meters long and 38 meters wide, the Black Church stands as the biggest Gothic place of worship of south-eastern Europe, being able to accommodate about 5000 people at a time. It is also the largest sacred building in Romania, the greatest hall church east of Wien, and one of the most important medieval places of worship in Europe. Architecturally, it is a hall church pertaining to the late Gothic era, composed of a choir, a nave and a tower. The exterior of the choir is supported by 15 buttresses, each of them fitted with a small canopy and a miniature statue underneath it, a rare feature in Transylvanian churches. Inside, one of the most impressive sights is the enormous organ, made between 1836 and 1839 and composed of 3993 pipes, the longest of which reaches about 13 m. Long, wide, high, and breathtakingly beautiful, this is indeed a cathedral of giants.

## ► The White Tower

The White tower was built in 1494 on top of a rock. Its straight side closing a semicircle faces the city. The tower has 5 stories and its height ranges between 18-20 meters, depending on the grounds it is built on. It got its name from the whitewash that coated its walls. The top is bastion shaped and the offsets from which showers of stone were dropped on the attacking enemy are still standing on its sidewalls. The entrance of the tower was so high that a ladder was needed in order to get inside. Just like the other buildings, the tower also suffered damages in the 1689 fire which were remedied only in the 1723 restoring works.



According to the town defense system the tin- and coppersmiths were responsible for the protection of the tower.

## ► The Black Tower



The Black tower is an 11 meter high massive tower with a glass roof constructed in 1995. It was built in the XIVth century and survived two fires caused by lightning. After the first fire (1599) the tower was named The Black Tower. The 2 m high entrance of the tower could be approached only by ladder. The link to the castle was an underground tunnel and a bridge.

The tower was built for defense against enemies. The last time it functioned as a watchtower was in 1756 during the plague epidemic. Today the tower houses temporary exhibitions.

## ► Catherine's Gate

Katalin gate, one of the oldest gates in town but undeniably the most beautiful is still preserved in its original state. In the course of history it used to be known under several names: Felső (Upper) gate, Corpus Christi and Saint Catherine, which is used today. The gate is located near Schei gate and for centuries it used to be the only gate that permitted access on the northern part of the fortress.



The four corner towers surrounding the tower of the rectangular construction marked the judicial right of the town. A drawbridge ensured the pass over the moat, and wooden corridors on several floors were built for the defenders.

# "HENRI COANDĂ"

## AIR FORCE ACADEMY



### Location and role of the Academy

"Henri Coandă" Air Force Academy is located in Brasov, a town situated in the geographical center of Romania. Brasov has a rich tradition of almost one century in the manufacturing of aircraft and is also famed for its military education. It is a specialized institution of the Romanian Armed Forces, responsible for higher education and scientific research, whose fundamental mission is to train officers for the Air Force and other beneficiaries.

**"Henri Coandă" Air Force Academy is a military higher education institution, subordinated to the Air Force Staff.**



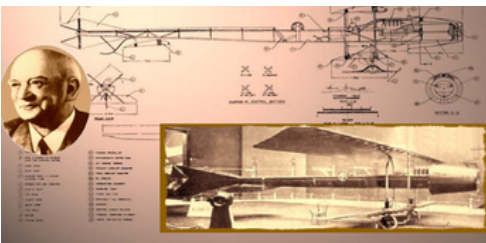




## History

"Henri Coandă" Air Force Academy continues the activity of the Aviation Military Institute "Aurel Vlaicu", the Radiolocation Military Institute and "General Bungescu" Missiles and Anti-Aircraft Artillery Institute, whose traditions were based on the following historical moments:

- ▶ the first aviation military school, set up on 1 April 1912, in Cotroceni, under the leadership of Maj. Ion Macri, one of the first five institutions of this kind in the world;
- ▶ the first officers' school in the field of anti-aircraft artillery was established shortly after the second World War had begun, respectively on 10th December 1939, in Bucharest;
- ▶ the first radar officers' school was established on 1 December 1952, in Sibiu.



**Based on the Government Decree, the Air Force Academy was established and given the name of "Henri Coandă", in the honour of the great scientist who invented the jet plane.**



## History

In 1998, the Academy was authorized by the National Council of Academic Evaluation and Accreditation.

In March 2001, the same Council accredited the Air Force Academy as a University ranked institution.

Since 25th April 2002 "Henri Coandă" Air Force Academy has been accredited in "Organizational Management" specialization by Government decision.

2010 has been the year when a new vision for the academy development started. Therefore, new curricula were created.

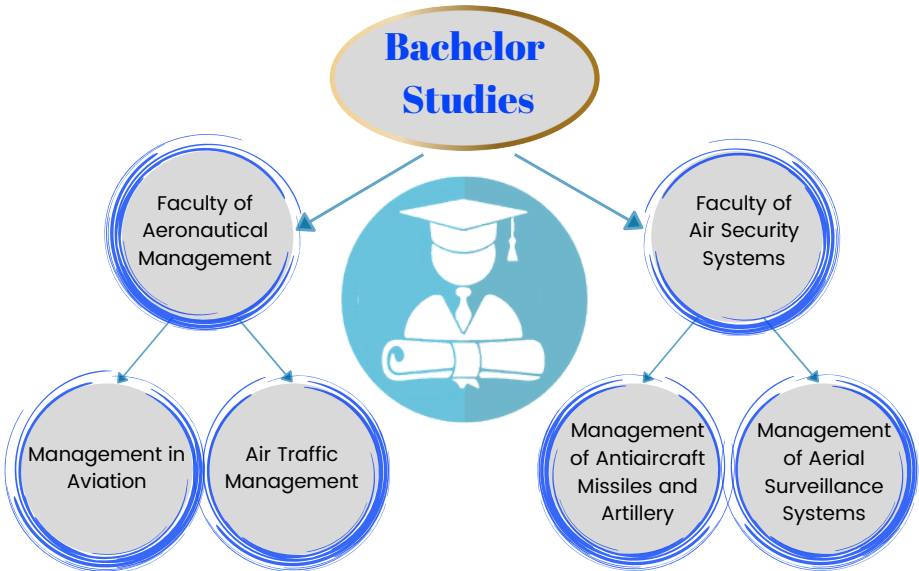
**Since it was established, the Air Force Academy has trained university graduates, young officers able to accomplish their missions in optimal conditions.**



# Study Programmes:

## Bachelor Studies

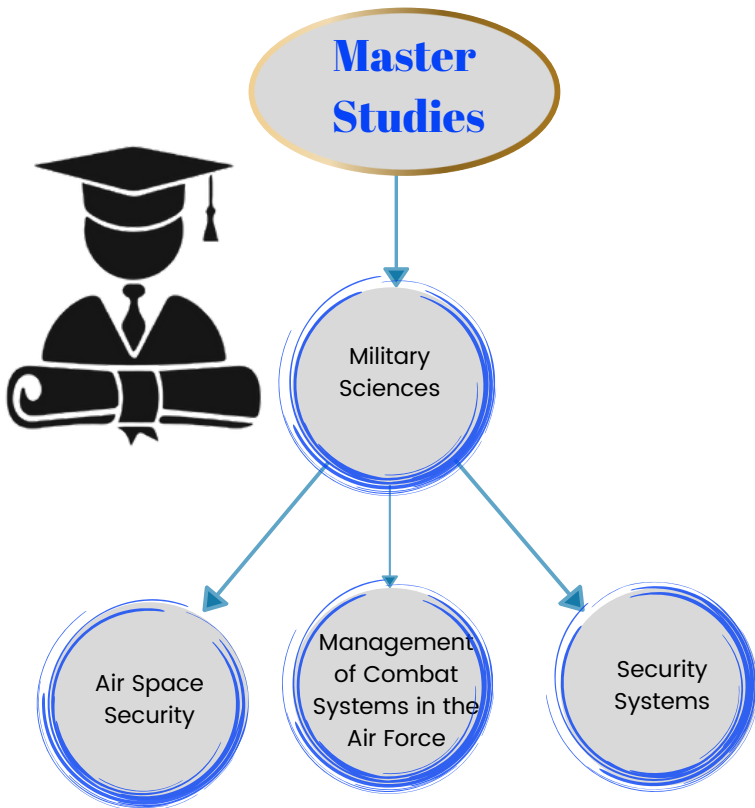
"Henri Coandă" Air Force Academy is a unique institution which trains through the Bachelor's degree study programs: Management in Aviation, Air Traffic Management, Management of Antiaircraft Missiles and Artillery and Management of Aerial Surveillance Systems, future officers for the following specializations: missiles and antiaircraft artillery, flying personnel, radar, non-flying personnel, meteorology, air traffic controller and electronic warfare in aviation and air defence.





# Master Studies

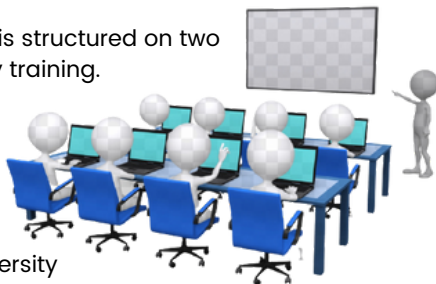
The academy provides training of military specialists through master studies in the field of Military Sciences, accredited specializations: Air Space Security, Security Systems, namely, The Management of Combat Systems in the Air Force.



# Teaching activities

The process of training future officers is structured on two components: basic training and military training.

The contents of these components are comprised in planning and organizational documents, their accomplishment being the purpose of the highly trained teaching staff.



The teaching staff is made up of university professors, both civilian and military, and military instructors.

The Teaching Staff also includes associated professors from different universities from Brasov, and other Romanian well-known universities.



# Internships in Military Units

Practical activities in specialized military units for the students' training in: Meteorology, Radars, Air Traffic Control and Artillery and Anti-Aircraft Missiles; Field training is carried out at the shooting ranges.



# Schedule of Activities

## Winter Semester

Year of Study	September	October	November	December	January	February
I	Initial military training	Courses	Courses	Courses	Courses	Courses
II	Courses	Courses	Courses	Courses	Courses	Courses
III	Courses	Courses	Courses	Courses	Courses	Courses

## Summer Semester

Year of Study	March	April	May	June	July	August
I	Courses	Courses	Courses	Courses	Graduation Exam	Practice of Speciality
II	Courses	Courses	Courses	Courses	Practice of Speciality	Practice of Speciality
III	Courses	Courses	Courses	Courses	Practice of Speciality	Exams

## Legend

Courses

Initial military training

Holiday

Graduation Exam

Practice of Speciality

Exams

# Scientific Research

In accordance with its stated mission, scientific research activities are carried out within the Air Force Academy, which are of a great importance for the Air Force Staff.

The research domains are as follows:

- Military Sciences and Management
- Humanities
- Engineering

## Research Capitalization



Participation in national programs of scientific research;



Scientific articles publications in specialized reviews, indexed in international databases, listed in ISI-Thomson;



Participation with scientific papers in national and international sessions and conferences;



Elaboration of specialized books, treaties, monographies released at the academy's publishing house, as well as at other national and international ones.

# Publications

## ► Review of 'Henri Coandă' Air Force Academy

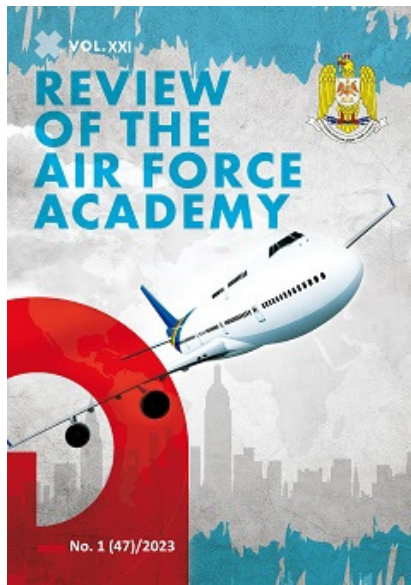
The journal "Review of the Air Force Academy" was first published in 2003, in its Romanian version, and starting with 2006, the journal has been published in English and issued two times a year (May and December). In 2005, on the occasion of the 10-year celebration of "Henri Coandă" Air Force Academy, a special issue was printed.

The journal has hosted articles and papers written by university professors and specialists in the field of Air Force, belonging to the academic staff and to other prestigious universities.

Due to the profile of "Henri Coandă" Air Force Academy, the sections of the journal are as follows: technical sciences, applied mathematics, management and socio-humanities and military science.

The journal contributes to a valuable exchange of opinions within the national scientific community, via mutual exchanges among universities in Romania, thus, the scientific research interests of our staff becomes known throughout the country. The journal was presented to all members of the foreign delegations visiting to the Academy. Ever since its first issue, the journal has been published regularly, the consistency between its designing and printing being preserved.

In December 2009, the "Review of the Air Force Academy" received the accreditation by the National University Research Council, class B+.



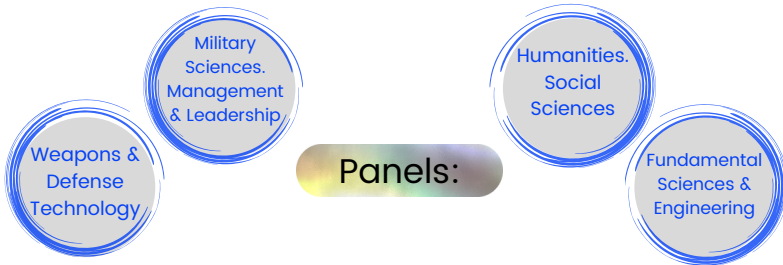
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# ► Students' International Conference AFASTUD Communicating across Cultures

AFASTUD is organized to disseminate students' academic research. It also aims at identifying the most appropriate ways to spread, promote and render students' academic research results.

Each author has the right to submit maximum 2 (two) papers. Papers will be written in English, based on a given template. All scientific papers will be peer-reviewed by the members of the scientific committee. The best papers will be rewarded and published.





# ► “Scientific Research and Education in the Air Force” International Conference AFASES

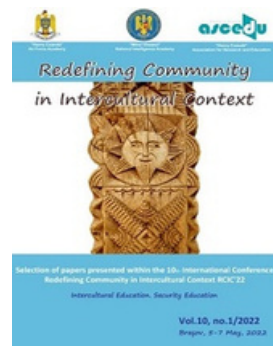
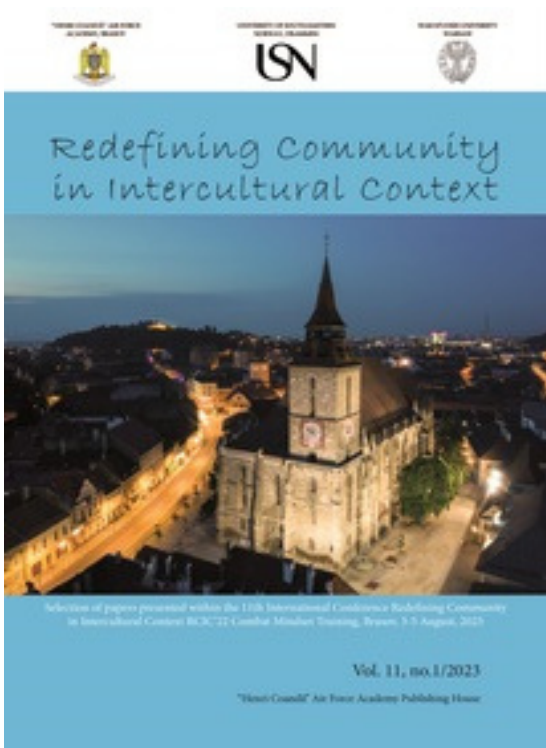
AFASES is a scientific event of reference for the research in the Romanian Air Force, focused on Military Sciences. It has reached its 22nd edition, being organized to disseminate the academic research of the participants and to identify the most appropriate ways to spread, promote and render the academic research results.



# ► "Redefining Community in Intercultural Context" International Conference RCIC

The main goal is an exchange of experience between professors, researchers and practitioners in the field of community dynamics, especially in the area of intercultural pedagogy. Moreover, it looks forward to putting into practice the new ideas that will result from the cross-fertilization of teaching activities and scientific research.

The end-goal is to improve the quality of education and, consequently, of personal and intellectual development. Last but not least, the intent is to disseminate the results of our multicultural dialogue within the academic community and beyond it.



# International Relations



## EUFAFA

### ► Objective

The European Air Force Academies (EUFAFA) Commandants' Conference is established as a forum in order to exchange information, co-operate and identify areas of common interest to carry out activities with the largest possible participation of all the member nations, in the field of officer education and training.

### ► Mission

EUFAFA mission is to encourage mutual education through the sharing of information on officer training by promoting academic and military exchanges concerning cadets and instructors training. Moreover, the goal is to share information on Officer Training and Education, to implement Common Modules Courses/Training and Seminars in order to facilitate cadets and instructors exchange.



## ► Vision

The vision is to establish a forum of European Air Force Learning Institutions that shares best practices, experiences and valuable information in order to guarantee the future Air-Force Officers world-class education for continuous improvement.

## ► Commandants' Conference

In 1993 the European Air Chiefs Conference (EURAC) was established with the main objective finding new methods of study and co-operation among European Air Forces – within and out of NATO. In this context a considerable importance has been given for a common vision in the ways of education and formation of future officers

- Composition:

The (EUAFAs) Commandants' Conference comprises the Commandants of Air Force Academies of the following European countries: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland, Turkey, United Kingdom.

## ► Experts' Working Group

- Common elements:

In order to find common elements within the syllabi of the EUAFAs a Working Group was established in 1998. The ultimate goal was to identify portions of the individual training and education programs that might be suitable for common training and/or mutual exchanges.

- Responsibilities:

The EUAFAs Working Group is responsible for the following tasks: view the member nations syllabi and focus on common fields within which to provide a basis for future co-operation in training and cadet exchanges; gather, update and disseminate the Databank (available at the website, and updated by the appropriate Working Group member) containing:

- An overview of educational systems.
- The structure organisational diagram of each participating country.
- The educational syllabus of each academy.
- The pilot education, training and timeframes in each academy.



# EMILYO

## ► About the Initiative

The European initiative for the exchange of young officers inspired by Erasmus, often referred to as "military Erasmus" in the media, is an initiative undertaken by the European Union Member States aimed at developing the exchanges between armed forces of future military officers as well as their teachers and instructors during their initial education and training. Due to the fact that the initiative is implemented by the Member States on a purely voluntary basis, their autonomy with regard to military training is not compromised.

The implementation of the initiative is driven by the key idea that exchanges of young officers during their initial training form the cornerstones for the emergence, in the longer run, of the increased interoperability and common culture that are needed for European security and defence. An Implementation Group was created in February 2009 as a task-oriented configuration of the European Security and Defence College's Executive Academic Board.





# ERASMUS+

Erasmus+ Programme plays an important role in the academic activity. Through the programme, "Henri Coandă" Air Force Academy develops its cooperation with European partners as well as with partners from the entire world.

The activity takes place under the aegis of the two keys of the programme:



## ► **KAI - Mobility Activities**

## ► **KA2 - Cooperation for Innovation and the Exchange of Good Practices, Strategic Partnerships for Higher Education**

## ► **Systems for Aerial Surveillance and Security**



- Summary

The goals that should be the priority of all interested states in a secure economic and social development include air traffic control, aviation security, airspace defence of EU and NATO partner countries, maintaining a climate of peace. At this time, these tasks are performed by the armies of the mentioned partner alliances. Economic crisis from many military systems and the necessity of aerial and terrestrial European security require actions which put together the military and civil societies. This means:

- Possible reduction in the number of troops
- A changing of concept on airspace defence and a taking-over of these tasks by civil society
- The involvement of civilians by developing their conscience regarding aeronautical safety issues but also air transport.

- Partners:

- "Henri Coandă" Air Force Academy, Brasov, Romania
- War Studies University, Warsaw, Poland
- Faculty of Aviation from Vasil Levski National Military University, Veliko Tarnovo, Bulgaria

## ► Implementation of Digitalization In Defence Higher Education



- Summary

Through the KA2 action of Erasmus+, common study modules were created, for the curriculum uniformity, on specialized programs of the defence system, including mobility internships for students and staff.

- Partners:

- “Henri Coandă” Air Force Academy, Brasov, Romania
- Vasil Levski National Military University, Bulgaria
- Hellenic Air Force Academy, Greece
- War Studies University, Poland





## ► International Air Force Semester

- Summary

International Air Force Semester is an European Strategic Partnership project funded under the Erasmus+ KA203 by the Hellenic Erasmus+ National Agency.

- Partners:

- Hellenic Air Force Academy
- Portuguese Air Force Academy
- Academia Forțelor Aeriene “Henri Coandă”
- European Security & Defense College

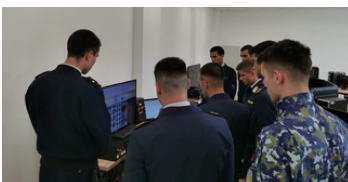


- Participants:

- Hellenic Air Force Academy
- Portuguese Air Force Academy
- Academia Forțelor Aeriene “Henri Coandă”
- European Security & Defense College
- “Georgi Benkovski” Air Force Academy
- Polish Air Force University

- Objectives:

- Promote a common security and defence culture
- Assist students to acquire skills and competences
- Improve the quality of education in the area of security and defence
- Promote military students mobility within the EU
- Promote cultural awareness by creating closer relationships among students
- Establish a network of collaborating European Air Force Institutions



# Students' International Week

"Henri Coandă" Air Force Academy hosts the event every year at the end of March as part of Academy Exchange Program.

The International Week provides our guests from over 20 invited countries a unique opportunity to familiarize with AFAHC's education and training curricula, while taking part in a variety of cultural and professional activities alongside with future leaders of other air force academies around the world.



# Combat Mindset Training for Romanian Military Students



## ► Project summary

The project has a strong innovative character in the context of military higher education because it aims to introduce combat mindset training for military students, for the first time in Romania. This type of training was successfully developed in the Norwegian army by the DS partner and will be accompanied by the adaptation in Romanian of a psychological assessment tool, The Multidimensional Self-Control Scale. The main target group consists of military students and the staff of the project promoter, and the secondary target group of military psychologists.

## ► Partners

- University of South-Eastern Norway (USN), USN School of Business, Institute of Business, Strategy and Political Sciences, Drammen, Norway
- Society for Military Psychology, Bucharest, Romania



# Courses provided in English

<b>Module Tactics</b>	
<b>Discipline</b>	<b>ECTS</b>
Basic on Electronics	4
Introduction to the Internet of Things - IoT / IoT Security	4
Cultural Interoperability in Multinational Military Actions	7
Tactics of Joint Military Actions	3
Systems Engineering Management in Defence	4
English	5
French	4
<b>Total</b>	<b>31</b>

# Module Management of Air Security Systems

Discipline	ECTS
Electronic Warfare	4
Introduction to the Internet of Things - IoT / IoT Security	4
Database Programming	4
Electronic Warfare	4
Anti-Aircraft Missile and Artillery Systems	4
Anti-Aircraft Missiles and Artillery Tactics	4
Networking; Routing and Switching Essentials (Summer semester)	4
Fundamentals of Radar	4
English	5
Systems Engineering Management in Defence	4
<b>Total</b>	<b>33</b>

# Module Systems for Aerial Surveillance and Security

Discipline	ECTS
Safety Management	5
Air Force Safety and Security	5
Air Law	5
Basic Principles of Navigation	5
Aviation English	5
Systems of Meteorology	5
<b>Total</b>	<b>30</b>



# Administrative Issues

“Henri Coandă” Air Force Academy offers:

- ▶ Free accommodation on the Academy’s premises



- ▶ Meals can be provided by AFAHC dining facilities



- ▶ Support by Military Students Association from Braşov

## Military Students' Association

- ▶ Increased accountability of students by organizing educational, cultural, and sport activities





▶ organizing and participating in conferences, seminars, training sessions



▶ development and implementation of projects for students



▶ conducting environmental activities, charity



# Teaching facilities

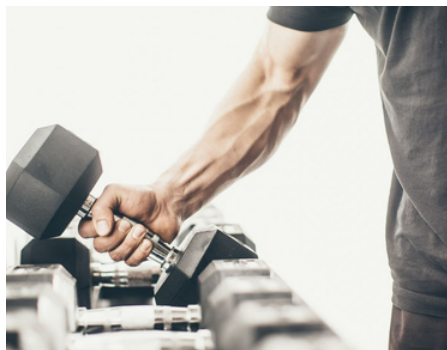
## ► Laboratories



## ► Classrooms



## ► Sport Hall and Gym



## ► Outdoor field



## ► Library

The Academic Library is part of the military informational and educational system. It detains a strategic cultural role and contributes to the basic training of the Academy's students, to the preservation of their civic spirit and loyalty towards national values.

The Academic Library is a structure for cultural and scientific information and consists of two main sections: the Encyclopedic Section and the Military Section.

The Academic Library houses an impressive collection of indigenous and foreign books, publications, graphic and audio-visual materials belonging to various areas of expertise.

Currently, the Academic Library holds 81,593 books and 20,863 titles.

The library collections are accessible to all students, professors, student-officers and officers as well as other personnel categories of the Air Force Academy. Access to the Academic Library is free of charge.



# Deadline for students'



## applications

First semester of academic year:  
15th July

Second semester of academic year:  
15th January

## Application documents

According to the Erasmus+  
Programme



## Contact



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Publishing House of "Henri Coandă" Air Force Academy