



TECHNICAL UNIVERSITY of KOSICE
FACULTY OF AERONAUTICS
SLOVAK REPUBLIC



**ANNUAL REPORT
2015**



**SLOVAK REPUBLIC
TECHNICAL UNIVERSITY OF KOŠICE
FACULTY OF AERONAUTICS**

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PREFACE

The Faculty of Aeronautics is a successor of the Air Force Academy of Gen. Milan Rastislav Štefánik in Košice, which was a prestigious educational institution in Europe and in the world providing university education for pilots and air operating personnel since 1973. The Faculty of Aeronautics focuses on long-lasting co-operation with many important civil and also military universities, scientific and research departments and with aviation companies in Slovakia and abroad.

The main mission of the Faculty of Aeronautics is to perform tasks of the Technical University, especially in the area of air technologies, aeronautics and astronautics. The Faculty provides university level education in all three degrees of accredited study programs (6 study programs in the first degree, 3 in the second and 3 in the third degree) taking into account the requirements of national and European legislation and the relevant European aviation legislation. It is a holder of the Slovak Republic Civil Aviation Authority certificate of specialised competence to provide theoretical preparation in the training of pilots and the certificate for Maintenance Training Organization Approval, which authorises the faculty to train air technical personnel as required by aviation legislation of the European Union, thus considerably expanding the possibilities of applying its graduates to work abroad.

The faculty is administratively divided into 6 departments with 72 scientific-pedagogical staff of these are 9 professors, 14 associate professors, 37 assistant professors and 5 research assistants providing education for more than 860 students in full-time and external form of bachelor, engineering and doctoral studies.

The year 2015 was for the Faculty of Aeronautics from the point of view of its development, a successful year and a significant milestone. Significant from the point of view of its development –we commemorated our ten-year existence by many activities. The year 2015 was for the faculty also a successful year – we successfully participated in the complex accreditation for our activities and finally with the very positive results. We obtained a successful certification after the exacting audits from the level of EU as well as The Maintenance Training Organization according to the European and National requirements (EASEA, Transport Authority SR) in the field of technical personnel training and air traffic controllers.

Graduates of the Faculty of Aeronautics find their positions in aviation companies and institutions and in organizations dealing with production, maintenance and repairs of air and operating equipment. Their education creates conditions for applying it in the electro-technical, mechanical engineering and computer companies, in the automobile industry, public and state administration, in the Air Force of the Slovak Armed Forces, in foreign trade etc. Graduates of the Faculty of Aeronautics have found employment in various foreign firms and organizations particularly in those related to aviation.

The science activity of the Faculty of Aeronautics covers a wide range of aviation disciplines of electrical engineering, mechanical engineering, air traffic operation and control. As in the past, in the year 2015 the scientific and research activities were the priority activities of the Faculty of Aeronautics. The important research facilities include: Research and development facility for the investigation of aircraft antenna technology, Aerodynamics laboratory of aerodynamics wind tunnels, Laboratory of intelligent control systems for aircraft engines and Laboratory of applied magnetometry and laboratories of developed unmanned aerial systems.

In the year 2015, scientific and pedagogical staff of the Faculty actively participated in many important projects and that was not only within the research projects APVV (2), KEGA (2), VEGA (5), but also in 6 projects financed from the EU structural funds (ASFEU). The faculty is also one of the participating members of the Seventh Framework Programme 7.RP EU-ESPOSA, whose consortium consists of 39 countries (EU countries, the USA, Ukraine and Russia). The project is dealing with new power plant systems that contribute to the overall higher efficiency of engines, greater safety and reduced pilot workload when in flight. The academic year has witnessed the successful completion of two ASFEU Projects

(Research and development facility of aircraft antenna equipment and the one of Pilot training methodology based on flight simulators). Remarkable achievements have been recorded by solving the projects for direct applications in the industry and economy regarding the development magnetic sensors based on ferromagnetic micro-wires and systems of searching and indicating ferromagnetic and conducting materials. Applied magnetometry is also acquiring an ever widening field of applications in the development of safety systems and solving ecological issues.

Basic research was focused on the relation existing between the structures and characteristics of nano-crystalline complexes of oxides produced by mechano-chemical methods. The research was also oriented on the characteristics of amorphous ferromagnetic materials and on materials at low temperatures. Last but not least, we have also covered the fields of air transport management and aviation environment. The remarkable results of the research in the field of aviation have been published in the *Acta Avionica*, a reviewed scientific journal of our Faculty of Aeronautics.

The basic tasks of the Faculty of Aeronautics include new international partnerships, and in particular to create opportunity for the implementation of relevant international projects on the land of the faculty. The centre of the interest is also to support young researchers and doctoral candidates in their efforts to establish a professional cooperation with the partner institutions abroad. The international mobilities of employees and students for development of the scientific co-operation are mainly realized within the project Erasmus and within particular projects. The Faculty of Aeronautics has signed agreements of reciprocal co-operation with foreign institutions and organizations, as e.g. Czech Technical University in Prague – Faculty of Transportation Sciences, University of West Bohemia in Plzen, West Avionics Luftfahrelektronik GmbH (Germany), College of Enterprise and Administration in Lublin (Poland), The State School of Higher Education in Chelm (Poland), Polish Air Force Academy in Deblin (Poland), National Aerospace University Kharkiv Aviation Institute (Ukraine), Technical University of Liberec, University of Defence in Brno, University of Pardubice, VŠB Technical University of Ostrava, University College of Business in Prague. To support the activities in the aviation field, “the Memorandum of Understanding and Co-operation” with many partnership organizations was signed.

The Faculty of Aeronautics annually organizes major international scientific conferences and in the year 2015 it was the International Scientific Conference of Modern Safety Technologies in Transportation MOSATT 2015 and The 4th International Scientific Conference of Ph.D. Students and Young Scientists and Researchers, and we also co-organized the International Scientific Conference of Magnetic Measurements 2015.

The Faculty of Aeronautics cooperates with lots of professional organizations, institutions and universities from Slovakia and abroad such as: Slovak Academy of Sciences, some universities of science and technology from Slovakia and abroad, Academy of Armed Forces of Gen. M. R. Stefanik in Liptovsky Mikulas, Aircraft Repair Company Trencin JSC, Air Traffic Services, n.c. Bratislava, Transport Authority Bratislava, Opera Jet, JSC., Helicompany, Ltd., Techniserv, Ltd., Tomark, Ltd. and other professional and business organizations, Air Navigation Services Provider SR, Austrian Airlines Technik - Bratislava, Ltd., ETCC Education Training & Consulting company JSC., The Flight School Heli Company Košice International Airport, Vaclav Havel Airport Prague, LSC., Slovak Organisation for Space Activities, Slovak Magnetic Company (SMAGS), Air-Transport Europe.

Yours Sincerely

prof. Ing. František Adamčík, PhD.

CONTACTS

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KOSICE – THE RESIDENCE OF THE FACULTY OF AERONAUTICS TUKE

Kosice is the second largest city of the Slovak Republic. The first written reference to the city with the historical name CASSOVIA dates back to the 13th Century. In the first half of the 14th century Kosice had already been a free royal town. In December 1654, there was the first grammar school established in 1657 - the University of Academia Cassoviensis, renamed in 1776 to the Royal Academy - Academia Regia Cassoviensis. Kosice city is also interesting with its architecture. The old town has been declared an Urban Conservation Area. In the centre, the Cathedral of St. Elizabeth is known as one of the most monumental expression of Gothic art in Europe.

The Technical University of Kosice was established in 1952, but in fact, the origin and roots of the two faculties go back to the 18th century and they are derived from the Mining Academy in Banská Štiavnica. The University is a state-supported institution. At present, the University consists of nine faculties. It has about 10 000 students and 900 academic staff members.

The Faculty of Aeronautics was established on 1 February 2005 as a successor of the Air Force Academy of Milan Rastislav Stefanik in Kosice, which had been a prestigious educational institution in Europe and in the world having provided university education for pilots and air operating personnel for over 30 years. The main mission of the faculty is to contribute to the tasks of the Technical University, especially in the area of air technologies, aeronautics and astronautics. The faculty from its beginning has focused on complex aviation issues, has provided university education and has conducted the scientific research and development in traditional areas of aviation: the management and security of aviation, aerospace engineering, avionics and construction, maintenance and operation of aeronautical products as a part of three scientific fields with accredited study programs at all three university degrees.

MANAGEMENT OF THE FACULTY OF AERONAUTICS

Dean: prof. Ing. František ADAMČÍK, PhD.
e-mail: frantisek.adamcik@tuke.sk

Vice-dean for science and research: doc. RNDr. Eva KOMOVÁ, PhD.
e-mail: eva.komova@tuke.sk

Vice-dean for education: Ing. Peter KALAVSKÝ, PhD.
e-mail: peter.kalavsky@tuke.sk

Vice-dean for development: Ing. Pavol KURDEL, PhD.
e-mail: pavol.kurdel@tuke.sk

Secretary of the Faculty: Ing. Jozef DRABIŠČÁK
e-mail: jozef.drabiscak@tuke.sk

Chairman of academic senate: Ing. Juraj VAGNER, PhD.
e-mail: juraj.vagner@tuke.sk

DEPARTMENTS OF FACULTY AND THEIR HEADS

Department of Aerodynamics and Simulations
RNDr. Viera MISLIVCOVÁ, PhD.
kas.lf@tuke.sk

Department of Avionics
doc. Ing. Róbert BRÉDA, PhD.
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Department of Aviation Technical Studies
doc. Ing. Dušan PRASLIČKA, PhD.
kltp.lf@tuke.sk

Department of Flight Training
Ing. Róbert ROZENBERG, PhD.
klp.lf@tuke.sk

Department of Aviation Engineering
Ing. Marián HOCKO, PhD.
kli.lf@tuke.sk

Department of Air Transport Management
Ing. Peter KOŠČÁK, PhD.
kmfp.lf@tuke.sk

SCIENTIFIC BOARD**Chair:** prof. Ing. František ADAMČÍK, PhD.**Vice - chair:** doc. RNDr. Eva KOMOVÁ, PhD.**Internal members:**

Ing. Peter KAĽAVSKÝ, PhD.
prof. Ing. Milan DŽUNDA, PhD.
prof. Ing. Tobiáš LAZAR, DrSc.
prof. Ing. Martin PETRUF, PhD.
prof. Ing. Jozef POVAŽAN, PhD.
doc. Ing. Ján BÁLINT, PhD.
doc. Ing. Jozef HUDÁK, PhD., mimoriadny profesor
doc. Ing. Slavomír KIŠ, PhD.
doc. Ing. Ján LABUN, PhD., mimoriadny profesor
doc. Ing. Ján PIL'A, PhD.
doc. RSDr. Ján POPRENDA, PhD.
doc. Ing. Dušan PRASLIČKA, PhD.
doc. Ing. Stanislav SZABO, PhD., MBA
doc. RNDr. Ladislav TOMČO, PhD.
doc. Ing. Rudolf ZAHRADNÍČEK, PhD.

External members:

dr hab. inż. Marek GRZEGORZEWSKI
Polish Air Force Academy in Dęblin, Poland

dr hab. inż. Jarosław KOZUBA
Polish Air Force Academy in Dęblin, Poland

Dr. h. c. prof. Ing. Miroslav LÍŠKA, PhD.
Armed Forces Academy of GMRŠ, Slovakia

Dr. h. c. Prof. Ing. Ladislav MADARASZ, PhD.
Technical University of Košice, Faculty of Electrical Engineering and Informatics, Slovakia

doc. Ing. Jiří POLANSKÝ, PhD.
University of Leeds, Faculty of Engineering

doc. Ing. Radislav ŠMÍD, PhD.
Czech Technical University in Prague, Faculty of Electrical Engineering, Czech Republic

Dr. h. c. Prof. Ing. Zdeněk VINTR, PhD.
University of Defence, Faculty of Military Technology, Czech Republic

prof. Ing. Josef BLAŽEK, PhD.
The University of Security Management in Košice

Secretary: Ing. Martina MELICHEROVÁ

ACADEMIC SENATE

Chair: Ing. Juraj VAGNER, PhD.

Vice-chairs: Ing. Peter KOŠČÁK, PhD.
Ing. Tomáš PUŠKÁŠ

Members: doc. Ing. Róbert BRÉDA PhD.
Ing. Peter ČEKAN, PhD.
Ing. Radko ŠULEJ, PhD.
doc. Ing. Ján LABUN, PhD., mimoriadny profesor
prof. Ing. Jozef POVAŽAN, CSc.
Ing. Karol SEMRÁD, PhD.
Bc. Simona BABICOVÁ
Bc. Csaba KOVÁCS (to 1.9. 2015)
Marcel FARKAŠ (from 1.12. 2015)
Bc. Filip KVAČKAJ

Members of Academic Senate TUKE

PhDr. Anna ČEKANOVÁ, PhD.
Ing. Juraj VAGNER, PhD.
Ing. Viktor BALAŠČÍK

DEPARTMENTS

The scientific and teaching staff of the Faculty of Aeronautics, Technical University in Kosice includes six departments with specialized focus on different areas of aviation issues.

Academic Departments	Responsibilities
Department of Aerodynamics and Simulations	school subjects in aircraft machinery - aerodynamics, informatics, computer technology programming applied to mathematical analyses, linear algebra, analytical geometry, mathematics, physics
Department of Avionics	school subjects focused on avionics, airborne instruments, aircraft electrical systems, airborne radio and radio-technical systems and special systems of aircraft
Department of Aviation Technical Studies	related to the aviation engineering, aviation and industrial sensorics and magnetometrics, aviation mechanics and material, aviation electrotechnics, electronics and cybernetics
Department of Flight Training	preparation of the flying staff, personnel of air traffic control, simulator training of crews and air traffic controllers
Department of Aviation Engineering	preparation of a ground and flying staff in the aircraft design theory, aeronautical engines, ground servicing and airfield operations
Department of Air Transport Management	school subjects focused mainly on the area of management, organization and supervision of air traffic operations, economics and regulations of civilian managerial specialties

EDUCATION AND COURSES

Courses offered

The Faculty of Aeronautics offers three types of full-time and part-time courses:

Bachelor's Degree courses (3 years) leading to degree Bc.

Master's Degree courses (2 years) leading to degree Ing.

Doctoral Study courses (3 years) leading to degree PhD.

Level	Title	Courses	Study field	
1.	Bc.	Air Transport Management	5.2.59.	Transport
	Bc.	Professional Pilot	5.2.59.	Transport
	Bc.	Air Traffic Controller	5.2.59.	Transport
	Bc.	Airport Operation	5.2.59.	Transport
	Bc.	Aircraft Operation	5.2.4.	Motor vehicles, rail vehicles, ships and airplanes
	Bc.	Avionics Systems	5.2.13.	Electronics
2.	Ing.	Air Transport Management	5.2.59.	Transport
	Ing.	Aircraft Operation	5.2.4.	Motor vehicles, rail vehicles, ships and airplanes
	Ing.	Sensorics and Avionics Systems	5.2.13.	Electronic
3.	PhD.	Air Transport Management	5.2.59.	Transport
	PhD.	Aircraft Operation	5.2.4.	Motor vehicles, rail vehicles, ships and airplanes
	PhD.	Aviation and Industrial Electronics Systems	5.2.13.	Electronics

CREDIT-BASED SYSTEM

STATISTICS

Present number of faculty staff members is 92 including 9 professors, 14 associate professors, 37 assistant professors, 5 research workers, 27 administrative staff and technicians.

Number of students

The number of BSc. students is 506, number of MSc. students is 311 and number of PhD. students is 43.

STUDY LEVEL	Full-time students	External students	Total
Bachelor	435	71	506
Engineer	243	68	311
Doctoral	21	22	43
			860

DEPARTMENT OF AERODYNAMICS AND SIMULATION

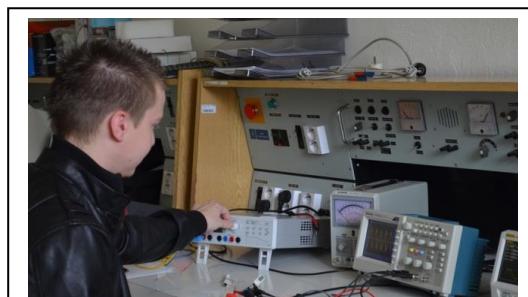
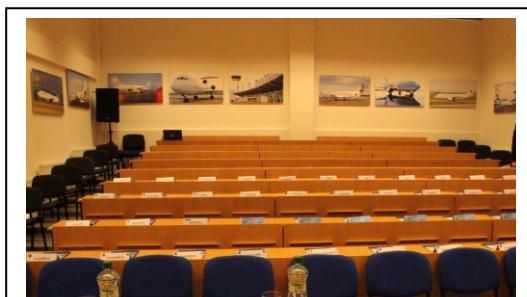
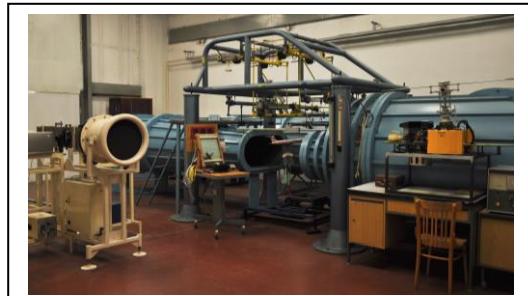
Contact

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Head of Department: RNDr. Viera MISLIVCOVÁ, PhD.

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DEPARTMENT'S PROFILE

The department of Aerodynamics and Simulations was established on 1 September 2004 as a scientific and educational department of the Institute of Aeronautics. It was established as a result of the Air Force Academy of General Milan Rastislav Štefánik and Technical University in Kosice merging. After the transformation process on 1 February 2005 it became a part of the Faculty of Aeronautics.

The department is responsible for teaching subjects for aircraft machinery such as aerodynamics, basic laws and definitions in subsonic aerodynamics, aerodynamics of wing, steady and unsteady flight, aircraft flight characteristics, flight qualities, supersonic aerodynamics, experimental aerodynamics, subjects for aircraft and helicopter pilots such as principles of flight, basic laws and definitions subsonic aerodynamics, aerodynamics of wings (rotary wings of helicopter), steady and unsteady flight (aircraft and helicopter), aircraft flight characteristics, flight qualities (aircraft and helicopter), supersonic aerodynamics. Other programmes include mathematics, physics, informatics, computer technology programming

applied to mathematical analyses, linear algebra, analytical geometry, numerical mathematics, discrete mathematics, theory of probability, mathematical statistics, operational analysis, database information systems, computer networks, and managerial informatics. It provides higher level education in all branches of science and specializations in all forms of studies: full-time and part-time, doctoral studies.

The research at the department is focused on aviation issues with the emphasis laid upon unmanned aerial vehicles, areas of experimental aerodynamics, the use of simulation technologies for preparation of aviation personnel and crisis management, magnetic properties of selected nanocrystalline ferroalloys, studying the physical properties of systems consisting of fine magnetic particles in their content, a problem of common and partial differential equations from the point of using numerical methods, problems of operational analysis, solving optimization problems in via graph theory, combinatorical structures and theory of hypergraphs, some issues concerning the process of teaching and learning applicable to technical subjects.

STAFF

Professors:	doc. RNDr. Ondrej HUDÁK, DrSc., mimoriadny profesor
Associate Professors:	doc. RNDr. Eva KOMOVÁ, PhD. doc. Ing. Dušan NEŠTRÁK, CSc.
	doc. RNDr. Ladislav TOMČO, PhD.
Assistant Professors:	RNDr. Kristína BUDAJOVÁ, PhD. Ing. Jozef GALANDA, PhD. Ing. Peter GAŠPAROVIČ, PhD. RNDr. Viera MISLIVCOVÁ, CSc. RNDr. Peter SZABÓ, PhD. Ing. Radko ŠULEJ, PhD. RNDr. Katarína TIBENSKÁ, PhD.
Secretary:	Zuzana NIŽNÍKOVÁ

LABORATORIES, SPECIALIZED FACILITIES

- Laboratory of Aerodynamics
- Laboratory for Fundamental Measurements of Hydromechanics and Thermomechanics and course in Physics
- Laboratory of Simulation
- Laboratory for Basic Course in Informatics

TEACHING

Undergraduate Study (Bc.)

Subject	Name of Lecturer
Mathematics 1	RNDr. Viera Mislíková, PhD. doc. RNDr. Ondrej Hudák, DrSc., mimoriadny profesor
Mathematics 2	RNDr. Viera Mislíková, PhD. doc. RNDr. Ondrej Hudák, DrSc., mimoriadny profesor RNDr. Štefan Berežný, PhD. – Ext. Lect.
Seminar in Mathematics 1	RNDr. Kristína Budajová, PhD. RNDr. Eva Baranová – Ext. Lect.
Seminar in Mathematics 2	doc. RNDr. Ondrej Hudák, DrSc., mimoriadny profesor RNDr. Štefan Berežný, PhD. – Ext. Lect.

Physics	doc. RNDr. Ladislav Tomčo, PhD.
Seminar in Physics 1	RNDr. Marek Varga, PhD. – Ext. Lec.
Seminar in Physics 2	RNDr. Katarína Tibenská, PhD.
Physics 1	doc. RNDr. Ladislav Tomčo, PhD. doc. RNDr. Eva Komová, PhD.
Physics 2	doc. RNDr. Ladislav Tomčo, PhD.
Hydromechanics and Thermomechanics	doc. RNDr. Eva Komová, PhD.
Fundamentals of Informatics 1	Ing. Radko Šulej, PhD.
Fundamentals of Informatics	Ing. Radko Šulej, PhD.
Fundamentals of Informatics II	Ing. Radko Šulej, PhD.
Information Technology and Management	RNDr. Peter Szabó, PhD. Ing. Jozef Galanda, PhD.
Information System Security	Ing. Jozef Galanda, PhD.
Principles of Flight I	doc. Ing. Dušan Neštrák, CSc.
Principles of Flight II	doc. Ing. Dušan Neštrák, CSc.
Aerodynamics and Flight Dynamics I	doc. Ing. Dušan Neštrák, CSc.
Aerodynamics and Flight Dynamics II	doc. Ing. Dušan Neštrák, CSc.
Principles of Flight	Ing. Peter Gašparovič, PhD.
Propellers	Ing. Peter Gašparovič, PhD.

Graduate Study (Ing.)

Subject	Name of Lecturer
Aerodynamics and Flight Dynamics of Aircraft	Ing. Peter Gašparovič, PhD.
Applied Mathematics	RNDr. Kristína Budajová, PhD.
Numerical Mathematics	RNDr. Kristína Budajová, PhD.
Applied Mathematics II	doc. RNDr. Ondrej Hudák, DrSc., mimoriadny profesor
Information Technology in Air Transport	Ing. Radko Šulej, PhD., Ing. Martin Ježný, PhD. - Ext. Lect.

Postgraduate Study (PhD.)

Subject	Name of Lecturer
The Selected Chapters of Mathematics	RNDr. Kristína Budajová, PhD

RESEARCH PROJECT

- APVV-0027-11: Domain-wall dynamics in thin magnetic microwires, Eva Komová (investigator)
- KEGA081TUKE-4/2015: Measurements of physical and technical quantities for aeronautical study programs, Eva Komová (head), Kristína Budajová, Katarína Tibenská, Ladislav Tomčo (investigators)
- VEGA 1/0060/13: Formation and stability of magnetic properties of glass coated microwires, Eva Komová (investigator)
- 028TUKE-4/2013: An integrated program of study "Unmanned Aircraft Systems", Peter Gašparovič (investigator)
- VEGA 1/0143/13: The effect of magnetic dimension and spin anisotropy on the quantum processes in the geometrically frustrated systems, Katarína Tibenská (investigator)

- VEGA: Sensitivity of liquid crystals containing nanoparticles to external magnetic field, Ladislav Tomčo (investigator)
- ASFEU: The international virtual laboratory of progressive materials in Physics, Ladislav Tomčo (investigator)
- APVV-0526-11: Interactive methods of image acquisition and processing in microscopy using natural user interface, Peter Szabó (investigator)
- LF 002: Management of scientific information of Faculty of Aeronautics, Peter Szabó (investigator)

CO-OPERATION

Co-operation in the Slovak Republic

- Institute of Experimental Physics SAS, Košice
- Department of Electric Power Engineering, Faculty of Electrical Engineering and Informatics, TUKE
- Department of Power Engineering, Faculty of Mechanical Engineering, TUKE
- Faculty of Science, Pavol Jozef Šafárik University in Košice
- International Airport, Operations control, Košice
- Ministry of Interior and Ministry of Transport, Construction and Regional Development, SR
- TOMARK s.r.o., Prešov

International Co-operation

- Institute of Molecular Physics, Polish Academy of Science, Poznan
- Faculty of Computer Science, University of Vienna
- Institute of Physics ASCR, Prague
- Institute for Complex Systems, University of Rome

Membership in International Organization and Societies

- American Institute of Aeronautics and Astronautics, USA - Ing. Peter Gašparovič, PhD.
- Fédération Aéronautique Internationale, Switzerland - Ing. Peter Gašparovič, PhD.
- American Mathematical Society, USA - RNDr. Peter Szabó, PhD.

Membership in Slovak Organizations and Societies

- The Association of Slovak Scientific and Technological Societies - doc. RNDr. Eva Komová, PhD.
- Slovak Physical Society - RNDr. Katarína Tibenská, PhD., doc. RNDr. Ladislav Tomčo, PhD.
- Slovak Magnetic Society - doc. RNDr. Eva Komová, PhD., doc. RNDr. Ladislav Tomčo, PhD.
- Scientific Board of Faculty of Aeronautics - doc. RNDr. Eva Komová, PhD., doc. RNDr. Ladislav Tomčo, PhD.

Contracts

- CWIEME (3.5.2015-7.5.2015) - doc. RNDr. Ladislav Tomčo, PhD., Berlin, Germany

OTHER ACTIVITIES

Project for Industry Companies

- Long term collaboration with the company 2J s.r.o. on the measurement and computation of aerodynamic load on antennae.
Ing. Peter Gašparovič, PhD. (investigator)

GRADUATE THESES

THESIS TYPE	BACHELOR	MASTER	DOCTORAL
Number	14	1	0

Bachelor's Theses:

NAME OF STUDENT	NAME OF THESIS
Tímea Šmajdová	Digital libraries and retrieval systems of scientific knowledge
Ladislav Ohman	Open information technologies - academic publishing system
Veronika Rzuhovská	Open information technologies - journal management and publishing systems
Jozef Pavlinský	Aerodynamic measurement of the modified aileron section of the VSO-10 sailplane wing.
Dávid Kokoruďa	Simulation of an Airport Ground Traffic Management Process at the Airport Apron and Equipment of Passengers
Lukáš Vavrek	The Collection of Solved Tasks from Computer Networks in LMS Moodle
Tomáš Bodnár	Cloud Computing-use in the Academic Environment of Faculty of Aeronautics
Jana Tiburáková	Information System for Management of Scientific Conferences
Jozef Balucha	Department Notification System Based on Android OS
Marek Šafář	A 3D model of the security control at the Košice Airport
Patrik Jenča	Information technology based simulation of the passenger handling area with the condition depending on handling all the passengers and that depending on the time of the handling process
Daniel Lukáč	Developing presentation in Microsoft Powerpoint
Patrik Eštok	Presentation on the World Wide Web
Silvia Kudríková	Developing presentation by the manager of an aviation company

Master's Theses:

NAME OF STUDENT	NAME OF THESIS
Tímea Šmajdová	Digital libraries and retrieval systems of scientific knowledge

PUBLICATIONS

Books, textbooks

- Matematika 2 / Kristína Budajová, Viera Mislívcová - Košice : TU - 2015. - 118 s.. - ISBN 978-80-553-2256-8. [BUDAJOVÁ, Kristína - MISLÍVCOVÁ, Viera]
- Stručný úvod do lineárneho programovania / Peter Szabó - 1. vyd. - Košice : TU - 2015. - 140 s.. - ISBN 978-80-553-1979-7. [SZABÓ, Peter]

- Základy informatiky sadzba a typografia/ Radko Šulej - 1. vyd. - Košice : TU - 2015. - 96 s.. - ISBN 978-80-553-2418-0. [ŠULEJ, Radko]
- Prehľad základov fyziky pre uchádzačov o štúdium na Leteckej fakulte Technickej univerzity v Košiciach/ Katarína Tibenská - 1. vyd - Košice : TU – 2015. - 42 s.. - ISBN 978-80-553-2162-2. [TIBENSKÁ, Katarína]

Journals

- Dielectric Properties of Lyotropic Magnetic Liquid Crystal / P. Kopčanský ... [et al.] - 2015. In: Acta Physica Polonica A. Vol. 127, no. 2 (2015), p. 632-634. - ISSN 0587-4246 [P., Kopčanský - TOMČO, Ladislav - JADZYN, J. - SWIERGIEL, J. - MAJOROŠOVÁ, J. - KUBOVČÍKOVÁ, M. - TIMKO, M. - RAJŇÁK, M. - ŠIPOŠOVÁ, K. - GAŽOVÁ, Zuzana - BEDNARIKOVÁ, Z. - TOMAŠOVIČOVÁ, N. - HU, Chin-Kun - HAYRYAN, S. - STUDENYAK, I. - KOVALCHUK, T.M. - KOVALCHUK, O.V.]

Other Publications

PUBLICATION TYPE	CONFERENCE PROCEEDINGS		OTHER
Number	Foreign	Home	4
	7	3	

WE OFFER FOLLOWING SERVICES FOR COMMERCIAL SUBJECTS

- Aerodynamic and thermodynamic analyses of aircraft, propellers, jet engines, wind turbines and ground vehicles by CFD methods. We have computational capacity for performing the CFD analysis of a complete vehicle at any Reynold numbers and both subsonic and supersonic flow regimes. We are able to provide results of surface pressure, skin friction and integral parameters (total lift, total drag...).
- Courses of Mathematics (20 hours) and Physics (20 hours). Students will refresh their secondary school knowledge.
- Online courses: Algorithms and Programming (for the second and third level). Mathematical models in aeronautics (for the second level).
- Presentations about Faculty of Aeronautics study possibilities for secondary schools.
- Analysis of dielectric, magnetic and superconductive properties of materials analytically /models/ and numerically /FlexPDE/.
- Physical models of properties of materials for transport.

DEPARTMENT OF AVIONICS

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Phone No.: +421 55 602 6142



DEPARTMENT'S PROFILE

Department of Avionics was established on 1 September 2004 as one of the scientific and educational department of the Institute of Aeronautics aftermerging Air Force Academy of M.R Štefánik with Technical university of Kosice.

EDUCATION - RELATED ACTIVITIES

Department of Avionics guarantees and provides university education:

- 1st stage of university education - Bachelor program for Avionic Systems (field of study 2613 Electronics)
- 2nd stage of university education - engineering study program for Sensor and Avionic Systems (field of study 2613 Electronics)
- In the third stage of university education - the doctoral program for Aircraft and Industrial Electronic Systems (field of study 2613 Electronics)

The Department of Avionics is involved in teaching courses in the undergraduate study programs: Air traffic control, Professional pilot, Air transport management and Aircraft operations.

Department of Avionics provides courses focused on the following topics:

- avionics
- flight instruments,
- cybernetics aircraft systems,
- electronic aircraft systems,
- radio and radio technical aircraft systems,
- special onboard aircraft systems,
- aviation communication and information systems.

Department of Avionics guarantees and performs conversion courses for pilots and engineers from aircrafts' practical parts in the areas of avionics, flight instruments, aircraft electronic systems, aircraft radio and radio technical systems and special onboard aircraft systems.

STAFF

Professors:	prof. Ing. František ADAMČÍK, CSc. prof. Ing. Tobiáš LAZAR, DrSc.
Associate Professors:	doc. Ing. Ján LABUN, PhD., mimoriadny profesor doc. Ing. Rudolf ANDOGA, PhD.
Assistant Professors:	doc. Ing. Róbert BRÉDA, PhD. Ing. František ADAMČÍK, PhD. Ing. Marek ČEŠKOVIČ, PhD. Ing. Ján KABÁT, PhD. Ing. Pavol KURDEL, PhD. Ing. Vladimír VLASÁK, CSc. Ing. Ján ZBOJOVSKÝ, PhD.
Technical Staff:	Oľga KIZEKOVÁ Jaroslav PAROULEK
PhD. Students:	Ing. Henrich GLASER – OPITZ Ing. Ján HRABOVSKÝ Ing. Gabriel KALAPOŠ Ing. Martin KRCHŇÁK Ing. Marián MIĽO Ing. Tomáš VAISPACHER

RESEARCH AND DEVELOPMENT ACTIVITIES

The Department conducts research and development activities especially in the selected areas of avionics - flight instrument systems, electrical systems of aircraft, radio and radio-aircraft systems, special onboard aircraft systems, in the selected areas of processing and transmission of signals, accuracy and durability of radio electronic systems to interference, traffic, design and technical diagnostics of radio communication systems and visual flight control systems.

The main areas of fundamental and applied research at the Department include:

- increasing the share of international unification and certification of aviation education,
- modernization of educational and training techniques and technologies in aviation,
- mathematical modeling of aircraft characteristics and onboard electronic systems,
- use of aircraft radar altimeters for flight safety improvement,
- aircraft electromagnetic compatibility,
- satellite and inertial navigation systems integration,
- control of complex thermodynamic processes when exposed to high pressure and temperature.

LABORATORIES, SPECIALIZED FACILITIES

To provide courses and research activities, specialized classrooms and laboratories were built at the Department of Avionics.

- Laboratory of instruments and electronic instruments systems**

The laboratory is intended for research and teaching in the fields of flight aerometrical and navigation instruments, airframe and engine instrument systems, aerometric computers, measuring and control systems for oxygen and altitude equipment, warning systems and systems for recording flight parameters used on board of aircraft.

- Laboratory of electrical systems and flight control systems**

The laboratory is intended for research and teaching in the field of electrical machines and automatic flight control systems. Laboratory is equipped for the purposes of measuring static and dynamic characteristics of aircraft's generators and electromotors, measuring components of onboard electrical networks. Laboratory is designed for teaching courses focused on aircraft cybernetic systems included applications of adaptive and intelligent algorithms in avionic cybernetic systems.

- Laboratory of communication and navigation systems**

The laboratory is intended for research and teaching in the field of radio communication, radio technical and radio navigation aircraft systems. With its instrumental and material equipment it enables to perform measurements with circuits, analyze functionality and operability of such systems.

- Laboratory of maintenance procedures II**

The laboratory is intended for theoretical and practical courses in field of general and specific principles, procedures for operation, maintenance and repairs of aircraft. Theoretical and practical part of the course is performed as required by Part 147 and Part 66.

- Laboratory of aircraft equipment devices**

The laboratory is intended for practical courses in the field of general and specific principles, procedures for operation maintenance and repairs of aircraft equipment.

- Department of aircraft antenna equipment**

This specialized department is intended for research and courses in the field of measuring and evaluating of polar and spatial radiation characteristics of aircraft antennas, analysis and definition of patterns for radiation characteristics formation taking into account the position of antenna, frequency range, size, shape and type of aircraft. Laboratory equipment also enables to study radiation of devices with regard to their electromagnetic compatibility and allows diagnosing radio and radio technical devices. Software laboratory equipment enables to model and simulate radiation characteristics of aircraft, helicopters, antennas and also other objects if necessary.

- Specialized classroom**

The classroom is intended for practical courses using tools for modeling and simulation of aircraft dynamical movement, aircraft cybernetic systems and avionics systems in Matlab/Simulink programming environment. The classroom also offers virtual connection with the Laboratory of intelligent control systems of aircraft engines for remote access to laboratory systems as well as operational monitoring and thermodynamic parameters for real time small jet engine testing.

Each class is equipped with multimedia and presentation didactic technologies, including multimedia software modules for computer based education and video projection.

TEACHING

Undergraduate Study (Bc.)

Subject	Name of Lecturer
Avionic systems	Ing. Ján. Kabát, PhD.
Avionic systems	doc. Ing. Róbert Bréda, PhD.
Avionic systems	doc. Ing. Ján Labun, PhD., mimoriadny profesor
Avionics I	doc. Ing. Róbert Bréda, PhD.
Avionics II.	doc. Ing. Rudolf Andoga, PhD.
Avionic Systems of Aircraft	doc. Ing. Rudolf Andoga, PhD.
Aeronautical information radio systems	doc. Ing. Ján Labun, PhD., mimoriadny profesor
Semestral project	Ing. František Adamčík, PhD.
Instrument systems I	doc. Ing. Róbert Bréda, PhD., Ing. Vladimír Vlasák, CSc.
Instrument systems II	doc. Ing. Róbert Bréda, PhD., Ing. Vladimír Vlasák, CSc.
Navigation systems I	Ing. Pavol Kurdel, PhD.
Air traffic management in information systems I	doc. Ing. Ján Labun, PhD., mimoriadny profesor
Aircraft electrical systems I	Ing. Ján. Kabát, PhD., Ing. Ján Zbojovský, PhD.
Aircraft electrical systems II	Ing. Ján. Kabát, PhD., Ing. Ján Zbojovský, PhD.
Aeronautical radio engineering systems	Ing. Marek Češkovič, PhD.
Radio communications systems aircraft	doc. Ing. Ján Labun, PhD., mimoriadny profesor
Aircraft digital technologies	Ing. Marek Češkovič, PhD., Ing. Ján Zbojovský, PhD.
Maintenance procedures II.	Ing. Marek Češkovič, PhD.
Automatic aircraft control systems	doc. Ing. Rudolf Andoga, PhD. Ing. Ján Hrabovský
Onboard systems management	doc. Ing. Rudolf Andoga, PhD.
Radio navigation systems of aircraft	Ing. Pavol Kurdel, PhD.
Bachelor thesis	doc. Ing. Róbert Bréda, PhD.
Cosmic technologies II	Ing. František Adamčík, PhD.
Applied Opto-electronics	doc. Ing. Róbert Bréda, PhD.

Graduate Study (Ing.)

Subject	Name of Lecturer
Aircraft microwave and antenna technology	doc. Ing. Ján Labun, PhD., mimoriadny profesor
Aircraft communication systems	doc. Ing. Ján Labun, PhD., mimoriadny profesor
Aircraft automated control systems	doc. Ing. Rudolf Andoga, PhD.
Aircraft radio technical systems	Ing. Marek Češkovič, PhD.
Aircraft electrical systems III	Ing. Ján. Kabát, PhD. Ing. Ján Zbojovský, PhD.
Cyber aircraft systems	doc. Ing. Rudolf Andoga, PhD. Ing. Ján Hrabovský
Integrated navigation systems	doc. Ing. Róbert Bréda, PhD. Ing. Tomáš Vaispacher
Semester project avionics I	doc. Ing. Róbert Bréda, PhD.
Semester project avionics II	doc. Ing. Róbert Bréda, PhD.
Avionic Systems of Aircraft	Ing. Ján. Kabát, PhD.
Modeling of avionics systems	doc. Ing. Rudolf Andoga, PhD.
Air traffic management in information systems II	Ing. Marek Češkovič, PhD.
Navigation systems II	Ing. Pavol Kurdel, PhD. Ing. Martin Krchňák
Diagnostics and reliability	Ing. Ján. Kabát, PhD.

Diploma thesis	doc. Ing. Ján Labun, PhD., mimoriadny profesor
Design of avionics systems	Ing. Pavol Kurdel, PhD. Ing. František Adamčík, PhD.

Postgraduate Study (PhD.)

Subject	Name of Lecturer
Subject of theoretical fundament I	prof. Ing. František Adamčík, CSc.
Subject of theoretical fundament II	doc. Ing. Dušan Praslička, PhD.
Subject of specialization I	doc. Ing. Ján Labun, PhD., mimoriadny profesor
Subject of specialization I	doc. Ing. Rudolf Andoga, PhD.
Subject of specialization I	doc. Ing. Róbert Bréda, PhD.
Technical English	PhDr. Anna Čekanová, PhD.

RESEARCH PROJECTS

Title of the project	ESPOSA (Efficient Systems and Propulsion for Small Aircraft)
Type of the project	FP7 Program: 4th call FP7 EU – Aeronautics, Level 2 project grant agreement no: 284859
Responsible researcher:	Ing. Zdeňek Palát - První brněnská strojírna Velká Bíteš
Researchers:	prof. Ing. Jozef Považan, CSc. - Head of Participating
Organization no.36,	Ing. Rudolf Andoga, PhD., Ing. Ladislav Főző, PhD., Ing. Jozef Judičák, PhD., Ing. Peter Malatin
Period of the solution:	2011 – 2015
Title of the project	Support for improving the quality of universities and SAV
Type of the project	EU – OP Education
Number of the project	ITS code, OPV-2011/1.2/03-SORO
Principal investigator	prof. Ing. František Adamčík, CSc.
Time period of the project	2013 – 2015
Annotation of the project	The goal of project is development of education innovative forms, rationalization and improvement of university study programs, preparation of new course materials Avionic systems on Faculty of Aeronautics TUKE.
Title of the project	Support for improving the quality of universities and SAV
Type of the project	EU – OP Education
Number of the project	ITS codee, OPV-2012/1.2/05-SORO
Principal investigator	prof. Ing. František Adamčík, CSc.
Time period of the project	2013– 2015
Annotation of the project	The goal of project is development of education innovative forms, rationalization and improvement of university study programs, preparation of new course materials for course Science and experiment for doctoral studies at the Faculty of Aeronautics TUKE.
Title of the project	Digitalization, virtualization and testing of a small turbojet engine and its elements using stands for modern applied lecturing
Type of the project	KEGA
Number of the project	014TUKE-4/2015
Principal's Investigator Deputy	doc. Ing. Rudolf Andoga, PhD.

Time period of the project	2015– 2017
Annotation of the project	The project is oriented on application of modern digital technologies of complex system control in education. The basic aim is the transfer of knowledge, methods and data obtained in control and operation of a small turbojet engine into the process of education using virtualization tools. The project is oriented on practical evaluation of theoretical knowledge of students from the areas of real-time data acquisition, modeling, control and diagnostics of complex systems and realization of intelligent algorithms of machine learning in application on laboratory objects in the form of small turbojet engines and its elements.

CO-OPERATION

Co-operation in the Slovak Republic

- Transport Authority - Air Navigation Services of Slovak Republic
- Faculty of Electrotechnics and Informatics TUKE
- Airberlin Technik GmbH, Košice
- SNA Flight school – BÍDOVCE
- TOMARK, s.r.o., Prešov
- Aircraft Servicing Trenčín, a.s.
- Air Force Command OS SR
- STM – Aviation Museum, Airport K o š i c e
- International Airport Košice
- SOSA - Slovak Organisation for Space Activities, Bratislava
- Air Transport Europe, s.r.o., Poprad
- LOTN Trenčín
- Stredná odborná škola letecko-technická Trenčín
- Armed Forces Academy of general M. R. Štefánik, Liptovský Mikuláš
- Techniserv, s.r.o. Bratislava
- Flight Operation Services SR
- SOVA Digital, Bratislava
- Aeroengineers International s.r.o Bratislava
- INCOFF, s. r. o., Nábrežná 8, Nové Zámky

International Co-operation

- Department of Aircraft Electrical Systems, University of Defence, Brno
- Department of Measurements, Electrotechnical Faculty, CTU Prague
- Institute of air transport, Faculty of Engineering-Institute of transport, TU of Ostrava
- Polish Air Force Academy, Deblin, Poland
- Óbuda University, Budapest, Hungary
- Taganrog State University of Radioengineering

Membership in International Organizations and Societies

prof. Ing. František Adamčík, CSc.

- member of Editorial boards of the scientific journals - AVIATION - Technical University, Vilnius, Lithuania; ZESZTY NAUKOWE - Wyższa Szkoła Oficerska Sił Powietrznych, Dęblin, Poland; ADVANCES IN MILITARY TECHNOLOGY - UO Brno, the Czech Republic; OUR SEA - International Journal of Maritime Science & Technology, Dubrovnik, Croatia

doc. Ing. Rudolf Andoga, PhD.

- senior member of American Institute of Aeronautics and Astronautics, USA
- member of the Editorial board of Acta Polytechnica Hungarica Journal, Hungary

OTHER ACTIVITIES

The Department of Avionics was involved in organization of conferences:
Modern Safety Technologies In Transportation MOSATT 2015 16. - 18. September 2015
Zlatá Idka - one of conference supervisors was prof. Ing. Tobiáš LAZAR, DrSc., doc. Ing. Ján LABUN, PhD., mimoriadny profesor, Ing. Pavol KURDEL, PhD.

The Department of Avionics was involved in organization of 4th International Scientific Conference of PH.D. students and young scientists and researchers on May 14-15, 2015 in Košice, Slovakia.

Members of Department of Avionics took part in organization of conference SAMI 2015, IEEE the 11th International Symposium on Applied Machine Intelligence and Informatics 22 - 24 January 2015 Herľany - one of conference supervisors was doc. Ing. Rudolf ANDOGA, PhD.

The Department of Avionics was involved in organization of CINTI 2015, the 16th IEEE International Symposium on Computational Intelligence and Informatics, November 19-21, 2015, Budapest, doc. Ing. Rudolf ANDOGA was the technical program committee chair.

The Faculty of Aeronautics of the Technical University of Košice has been involved in the national project for the construction of the first Slovak satellite named SKCUBE, the organiser of which is the Slovak Organisation for Space Activities (SOSA). In cooperation of The Faculty of Aeronautics TUKE with SOSA agency, the Department of Avionics performed evaluation measurements of radiation characteristics of antennas of the first Slovak satellite prototype skCube. The measurements have been done in the Laboratory of aircraft antenna equipment. Action provide: doc. Ing. Ján LABUN, PhD., mimoriadny professor, Ing. Marek ČEŠKOVIČ, PhD., Ing. Viktor Képeši, PhD., Ing. Tomáš VAISPACHER (ADCS system).

The Department of Avionics was visited with a lecture of Ing. Ján BURŠÍK, PhD. from the flight operational services department of SR. Action provide: doc. Ing. Ján LABUN, PhD., mimoriadny profesor

The Department of Avionics organized excursions in the Museum of aviation in Košice for the students of the first and second year of bachelor degree studies. Action provide: doc. Ing. Ján LABUN, PhD., mimoriadny profesor

The Department of Avionics organized an excursion for students at the company Czech Airlines Technics, a.s. in Prague. The excursion has been supported by the project "Universities as engines of development of knowledge society" realized within the Center of scientific-technical information SR. Action provide: doc. Ing. Róbert BRÉDA, PhD., Ing. František ADAMČÍK, PhD.

The Department of Avionics organized an excursion of students in the company Austria Technik Bratislava. Action provide: Ing. Vladimír VLASÁK, CSc., Ing. František ADAMČÍK, PhD., Ing. Marek ČEŠKOVIČ, PhD.

Using coordinative and financial support of the Center of scientific-technical information of SR, a special excursion to the Airport of Košice was realized within the Center of scientific-technical information SR. Action provide: doc. Ing. Róbert BRÉDA, PhD.

The Department of Avionics organized practical training of second year students of the Master program in the Aircraft Repair Company Trenčín. This practical training was supported by the national project "Universities as engines of development of knowledge

society" realized within the Center of scientific-technical information SR. Action provide: doc. Ing. Róbert BRÉDA, PhD., Ing. Pavol KURDEL, PhD.

The Department of Avionics organized the Open doors day of The Faculty of Aeronautics TUKE, Children university, WE ARE HERE FOR CHILDREN TUKE and aviation fest SIAF 2015. Action provide: Ing. Pavol KURDEL, PhD., Ing. František ADAMČÍK, PhD., Ing. Marek ČEŠKOVIČ, PhD.

Ing. Henrich GLASER-OPITZ won awards for design and quality contribution of the competition for the best doctoral thesis TUKE, completed a course radar technology at the Fraunhofer Institute for RF Physics and Radar Techniques FHR 7th International Summer School on radar / SAR, Bonn, Germany.

Ing. Ján HRABOVSKÝ completed internships in Sova Digital - Siemens NX - Modeling, Assembly, Drawing, Surface.

GRADUATE THESES

THESIS TYPE	BACHELOR	MASTER	DOCTORAL
Number	11	10	1

BACHELOR'S THESES

NAME OF STUDENT	NAME OF THESIS
Blažej BAŠISTA	Sanitary distribution system of aircraft
Stanislav HUDÁK	Antenna adaption devices
Csaba KOVÁCS	Aviation work using UAVs
Dagmar LABIKOVÁ	Aircraft com antennas
Martin MAJERÍK	The technical aspect of the education system ILS
Svetoslav MATUŠOVIČ	Aircraft communications addressing and reporting system
Jana MIHÁLIKOVÁ	Technology weather radar
Marek NOVAK	Technical study of CPDLC system
Patrik PILÁR	State of the art of precision approach and landing systems
Michal SCHREINER	Unmanned aerial vehicles for aerial photography
Marek UJHELYI	Visualization of position angles of the aircraft INS

MASTER'S THESES

NAME OF STUDENT	NAME OF THESIS
Bc. Róbert DIOSZEGI	Modeling of dynamic aircraft properties in a virtual environment of a flight simulator
Bc. Peter DOMANIČ	Digital of navigation information
Bc. Martin DUJNÍČ	Department for evaluation of selected radio altimeters parameters
Bc. Dávid KIMÁK	Error models of thermoelectric sensors
Bc. Martin KRCHŇÁK	Airport DVOR navigation system in the acoustic medium
Bc. Matej MOLČAN	Spacecraft avionic systems
Bc. Marek NIŽNÍK	The onboard system VOR directional information in the acoustic medium
Bc. Branislav RÁCEK	Diagnostic of helicopter modular avionics
Bc. Juraj TARJÁNYI	EH antenna in air communication
Bc. Richard TÓTH	Aero metrical transmission parameters by bus CAN aerospace

DOCTORAL 'S THESES

NAME OF STUDENT	NAME OF THESIS
Ing. Viktor KÉPEŠI, PhD.	The impact of design aircraft directional characteristics of the antennas

PUBLICATIONS

Books, textbooks

1. LAZAR, Tobiáš - MADARÁSZ, Ladislav - GAŠPAR, Vladimír - NYULÁSZI, Ladislav: Vzájomnosť teoreticko-praktických problémov prognózovania spoľahlivosti MPM. - 1. vyd. - Košice : Elfa - 2015. - 275 s. - ISBN 978-80-8086-236-7.
2. ADAMČÍK, František - KURDEL, Pavol - LAZAR, Tobiáš - MADARÁSZ, Ladislav: Veda a experiment v doktorandskom štúdiu. -1. vyd. - Košice : TU - 2015. - 1-287 s. - ISBN 978-80-553-2039-7.
3. GLASER-OPITZ, Henrich - LABUN, Ján - KURDEL, Pavol: Rádiotechnické systémy lietadiel. - 1. vyd. - Košice : TU - 2015. - 1-225 s. - ISBN 978-80-553-2444-9.
4. ADAMČÍK, František - BRÉDA, Róbert - ANDOGA, Rudolf - KABÁT, Ján: Avionické systémy 1 Palubné elektronické a elektrické systémy lietadiel. - 1. vyd. - Košice : TU - 2015. - 176 s. - ISBN 978-80-553-2024-3.
5. ADAMČÍK, František - LABUN, Ján - BRÉDA, Róbert: Avionické systémy. - 1. vyd. - Košice : TU, LF - 2015. - 1-294 s. - ISBN 978-80-553-2035-9.
6. LABUN, Ján: Navigačné a komunikačné systémy. - 1. vyd. - Košice : TU - 2015. - 1-175 s. - ISBN 978-80-553-2254-4.
7. ADAMČÍK, František ml. - VAISPACHER, Tomáš - VLASÁK, Vladimír: Prístrojové systémy laboratórne cvičenia. - 1. vyd. - Košice : TU, LF - 2015. - 1-61 s. - ISBN 978-80-553-2165-3.
8. KURDEL, Pavol: Technika letovej bezpečnosti. - 1. vyd - Košice : TU - 2015. - 160 s. - ISBN 978-80-553-2304-6.
9. LABUN, Ján - KURDEL, Pavol: Letecké pozemné informačné systémy - faktor bezpečnosti na letiskách. - 1. vyd. - Košice: TU - 2015. - 1-105 s.- ISBN 978-80-553-2473-9.

Journals

1. LAZAR, Tobiáš - NOVÁK SEDLÁČKOVÁ, Alena - BRÉDA, Róbert: Regression in personal air transport of passengers evolution at selected airport time series method. In: Nase More. Vol. 62, no. 3 (2015), p. 228-232. - ISSN 0469-6255.
2. VAISPACHER, Tomáš - BRÉDA, Róbert - ADAMČÍK, František: Error analysis of inertial navigation systems using test algorithms. In: Nase More. Vol. 62, no. 3 (2015), p. 204-208. - ISSN 0469-6255.
3. KURDEL, Pavol - ADAMČÍK, František - LABUN, Ján: Adequacy of estimation model of asymptotic learning operator – pilot function. In: Nase More. Vol. 62, no. 3 (2015), p. 224-227. - ISSN 0469-6255.
4. KURDEL, Pavol - ČEŠKOVIČ, Marek - NYULÁSZI, Ladislav - ADAMČÍK, František: Selected method of diagnosing aviation ergatic systems. In: Nase More. Vol. 62, no. 3 (2015), p. 233-236. - ISSN 0469-6255.
5. KÉPEŠI, Viktor - LABUN, Ján: Radar signal attenuation due to finite radome thickness. In: Nase More. Vol. 62, no. 3 (2015), p. 200-203. - ISSN 0469-6255.
6. KRCHNÁK, Martin - LABUN, Ján - NIŽNÍK, Marek: Directional information VOR system in the acoustic medium. In: Acta Avionica. Roč. 17, č. 2 (2015), s. 1-7. - ISSN 1339-9853.
7. KURDEL, Pavol - LAZAR, Tobiáš - NOVÁK SEDLÁČKOVÁ, Alena: Operator - pilot learning success with aviation ergatic system control. In: Transport and communications. č. 1 (2015), s. 6-10. - ISSN 1339-5130.
8. KÉPEŠI, Viktor - LABUN, Ján - ČEŠKOVIČ, Marek: Change of a monopole antenna's radiation due to finite dimensions of its ground plane. In: Acta Avionica. Roč. 17, 31 - č. 1 (2015), s. 31-33. - ISSN 1335-9479.

9. KRCHNÁK, Martin - LABUN, Ján: DVOR navigation system in the acoustic medium. In: Acta Avionica. Roč. 17, č. 2 (2015), s. 1-7. - ISSN 1339-9853.
10. TARJÁNYI, Juraj - KRCHNÁK, Martin - LABUN, Ján: Possibilities of using EH antennas in aircraft communication. In: Acta Avionica. Roč. 17, č. 2 (2015), s. 1-5. - ISSN 1339-9853.
11. KRCHNÁK, Martin - LABUN, Ján - KURDEL, Pavol: Simulator of DVOR navigation system. In: Acta Avionica. Roč. 17, č. 33-3 (2015), s. 2-9. - ISSN 1339-9853.
12. TARJÁNYI, Juraj - KRCHNÁK, Martin - LABUN, Ján: Design of EH antenna as new possible type of aircraft antennas. In: Acta Avionica. Roč. 17, č. 33-3 (2015), s. 27-33. - ISSN 1339-9853.
13. KURDEL, Pavol - ADAMČÍK, František - LABUN, Ján: Experimental research of skills in aircraft control. In: Acta Avionica. Roč. 17, č. 33-3 (2015), s. 10-15. - ISSN 1339-9853.
14. KURDEL, Pavol - MREKAJ, Boris - NOVÁK SEDLÁČKOVÁ, Alena: Effectiveness and safety of complex transport systems. In: Acta Avionica. Roč. 17, 33, č. 3 (2015), s. 16-20. - ISSN 1335-9479.
15. ČEŠKOVIČ, Marek - LAŠŠÁK, Miroslav: UAV testing platform in education process. In: Acta Avionica. Roč. 17, 33, č. 3 (2015), s. 34-40. - ISSN 1335-9479.

Conferences

1. VAISPACHER, Tomáš - BRÉDA, Róbert - ADAMČÍK, František ml.: Analysis of GPS satellites position determination using MATLAB® environment. In: ICMT 2015. - Brno : University of Defence, 2015 P. 553-557. - ISBN 978-80-7231-976-3.
2. HRABOVSKÝ, Ján - ANDOGA, Rudolf: Využitie nízko nákladového hardvéru pri HIL testovaní PI regulátora pre motor iSTC21-v. In: Měření, diagnostika, spolehlivost palubních soustav letadel 2015. - Brno : Univerzita obrany, 2015 P. 84-92. - ISBN 978-80-7231-435-5.
3. KRCHNÁK, Martin - LABUN, Ján: Systém DVOR vo vyučovacom procese. In: Měření, diagnostika, spolehlivost palubních soustav letadel 2015. - Brno : Univerzita obrany, 2015 P. 115-124. - ISBN 978-80-7231-435-5.
4. ADAMČÍK, František ml. - ANDOGA, Rudolf - VAISPACHER, Tomáš: Application of neural networks in classification of thermal images. In: Transport Means 2015. - Kaunas : Kaunas University of Technology, 2015 P. 522-526. - ISSN 1822-296X.
5. GLASER-OPITZ, Henrich - GLASER-OPITZ, Leonard: Evaluation of CPDLC and voice communication during approach phase. In: Digital Avionics Systems Conference. - Danvers : IEEE, 2015 P. 2B3-1-2B3-10. - ISBN 978-1-4799-8939-3.
6. KOŠČÁK, Peter - ADAMČÍK, František: Bezpečnosť a ochrana zdravia pri práci v prevádzke letísk. In: Safety a security konference Praha 2015. - Praha : VŠO, 2015 P. 11-20. - ISBN 978-80-86841-57-1.
7. VAISPACHER, Tomáš - ANDOGA, Rudolf - BRÉDA, Róbert - ADAMČÍK, František ml.: Application of linearized Kalman filter in integration of navigation systems. In: CINTI 2015. - Danvers : IEEE, 2015 P. 79-84. - ISBN 978-1-4673-8519-0.
8. KURDEL, Pavol - ADAMČÍK, František - LABUN, Ján: Evaluation operator pilot skill in learning process. In: SGEM 2015. - Sofia, Bulgaria : STEF 92 Technology, 2015 P. 125-130. - ISBN 978-619-7105-34-6.
9. KOVÁCS, Radovan - FŐZŐ, Ladislav - ANDOGA, Rudolf: Calculation of flow in the gas turbine and the outlet tract using CFD methods. In: CINTI 2015 - Danvers : IEEE, 2015 P. 75-78. - ISBN 978-1-4673-8519-0.
10. ANDOGA, Rudolf - DRAGANOVÁ, Katarína - LAŠŠÁK, Miroslav: Engineering approaches in control of complex electro-mechanical systems. In: CINTI 2015. - Danvers : IEEE, 2015 P. 71-74. - ISBN 978-1-4673-8519-0.
11. KOMJÁTY, Maroš - FŐZŐ, Ladislav - ANDOGA, Rudolf : Experimental identification of a small turbojet engine with variable exhaust nozzle. In: CINTI 2015. - Danvers : IEEE, 2015 P. 65-69. - ISBN 978-1-4673-8519-0.
12. VAISPACHER, Tomáš - BRÉDA, Róbert - MADARÁSZ, Ladislav: Integration architectures of navigation systems for unmanned vehicles. In: SAMI 2015. - Danvers : IEEE, 2015 S. 97-101. - ISBN 978-1-4799-8220-2.
13. VAISPACHER, Tomáš - BRÉDA, Róbert: Integrácia systémov INS, GPS a eLORAN. In: Měření, diagnostika, spolehlivost palubních soustav letadel 2015. - Brno : Univerzita obrany, 2015 P. 23-32. - ISBN 978-80-7231-435-5.
14. LABUN, Ján - KURDEL, Pavol - ADAMČÍK, František - ČEŠKOVIČ, Marek: Specific gate effect of

- coexistence of transport systems. In: MOSATT 2015. - Košice : Perpetis, 2015 S. 127-132. - ISBN 978-80-971432-3-7.
15. GLASER-OPITZ, Henrich - GLASER-OPITZ, Leonard - LABUN, Ján: Data link communication interface with flight simulator in form of a CPDLC. In: MOSATT 2015. - Košice : Perpetis, 2015 S. 63-68. - ISBN 978-80-971432-2-0.
16. KÉPEŠI, Viktor - LABUN, Ján: Korekcia zmeny vzájomnej vzdialenosťi dvoch antén. In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. - Košice : TU, 2015 S. 00-1-00-6. - ISBN 978-80-553-2136-3.
17. GLASER-OPITZ, Henrich - GLASER-OPITZ, Leonard: CPDLC research in procedural and radar control and its usage for training purposes. In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. - Košice : TU, 2015 S. 00-1-007. - ISBN 978-80-553-2136-3.
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20. FŐZŐ, Ladislav - ANDOGA, Rudolf - MADARÁSZ, Ladislav - KOLESÁR, Ján - JUDIČÁK, Jozef: Description of an intelligent small turbo compressor engine with variable exhaust nozzle. In: SAMI 2015. - Danvers : IEEE, 2015 S. 157-160. - ISBN 978-1-4799-8220-2.
21. HRABOVSKÝ, Ján - ANDOGA, Rudolf - FŐZŐ, Ladislav - JUDIČÁK, Jozef: A conceptual method for implementation of anytime algorithms for a small turbojet engine. In: CINTI 2015. - Danvers : IEEE, 2015 P. 113-116. - ISBN 978-1-4673-8519-0.
22. ZBOJOVSKÝ, Ján: Modelling the distribution of electromagnetic field and calculation of shielding effectiveness. In: SCYR 2015. - Košice : TU, 2015 S. 84-85. - ISBN 978-80-553-2130-1.
23. MEDVEĎ, Dušan - BELUŠČÁK, Marek - ZBOJOVSKÝ, Ján: Solution of thermal field around transformer. In: Elektroenergetika 2015. - Košice : TU, 2015 S. 140-143. - ISBN 978-80-553-2187-5.
- ANDOGA, Rudolf - FŐZŐ, Ladislav - JUDIČÁK, Jozef: Practical application of adaptive methods in control of small turbo-compressor engines. Mosatt 2015. - Košice : Perpetis s.r.o., 2015 S. 1-6. - ISBN 978-80-971432-2-0 - ISSN 1338-5232.

Patents, certificates

“Reflective Panel to Change the Polarization of Radio Waves” Patent Application Number 53-2014, International Patent Classification H01Q15/00, Names of Inventors : Labun J., Kurdel P.; Adamčík F.; Češkovič M.

„The Reduction of the Parasitic Effect Reflections of Radio Altimeter “Patent Application Number 54-2014, International Patent Classification H01Q9/00, Names of Inventors: Labun J., Kurdel P.; Adamčík F.; Češkovič M.

Certificate: Maintenance Training and examination Organization approval CAA of Slovak Republic certificate - Reference: SK.147.0003

DEPARTMENT OF AVIATION ENGINEERING

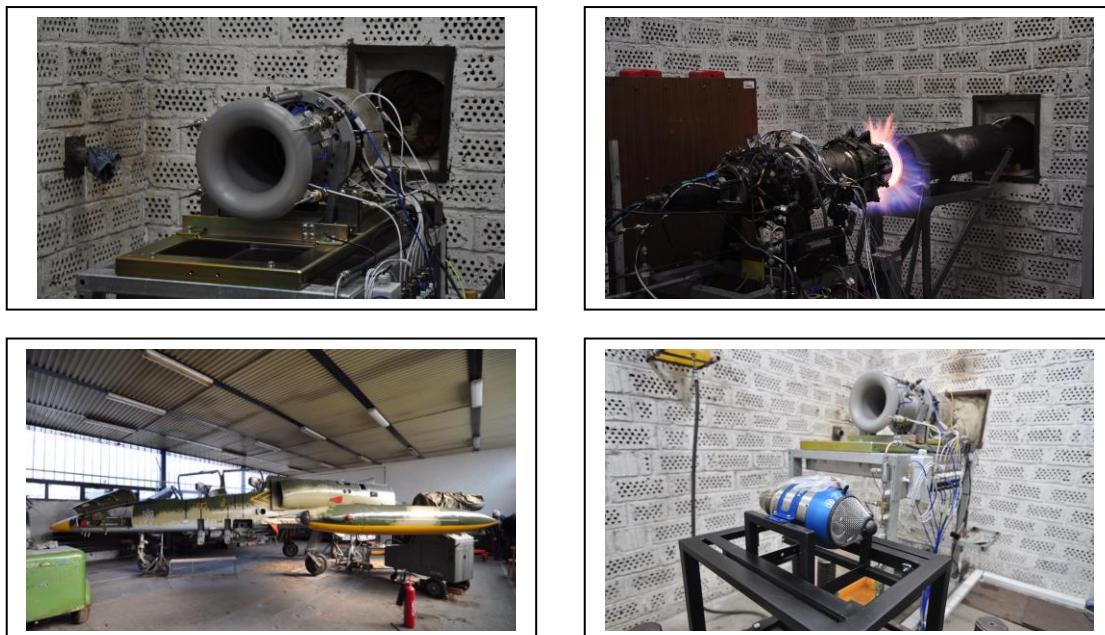
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DEPARTMENT'S PROFILE

The Department is responsible for teaching subjects concentrated mainly on theoretical preparation of ground and flying staff in theory of aircraft design, aeronautical engines, ground servicing and airfield operation as well as practical training of ground and flying crew in the areas mentioned. It provides short- and medium-term conversion courses for the aviation staff in type-rating for aircraft, servicing and support equipment. The guarantee to higher level education is assumed for the areas as follows:

- Master's degree programmes in Aviation Mechanical Engineering, specialty: Operation, Maintenance and Repair of Aircraft and Aviation Engines, and Airfield Technical and Operational Support
- Bachelor's degree programmes in Aircraft Operation
- Doctoral studies in Aviation Armament and Equipment, specialty: Design, Operation, Maintenance and Repair of Aircraft and Aviation Engines, Means of Airfield Operation and Technical Support.

Research is conducted especially in the areas of a design of aircraft and aviation engines, design of ground support facilitating the operation of aircraft and aviation engines, supervision and provision of jobs related to the operation aircraft and aviation engines, supervision and provision of airfield support and ground servicing of aircraft and aviation engines.

The Department is divided into:

- Section of Aircraft and aviation engines
- Section of Airport operation and support
- Group of Technical support of teaching aviation equipment

STAFF

Professors:	prof. Ing. Jozef POVAŽAN, CSc. prof. Ing. Martin PETRUF, PhD.
Associate Professors:	doc. Ing. Ján PIL'A, PhD.
Assistant Professors:	Ing. Stanislav FÁBRY, PhD. Ing. Ladislav FŐZŐ, PhD. Ing. Marián HOCKO, PhD. Ing. Michal HOVANEC, PhD. Ing. Jozef JUDIČÁK, PhD.
Senior Scientists:	Ing. Peter KORBA, PhD.
Technical Staff:	Ing. Jiří SYROVÝ Ing. Miroslav HÁJEK Ing. Stanislav PRACHÁŘ Marián EPERJEŠI Dáša BAČÍKOVÁ
PhD. Students:	Ing. Miroslava CÚTTOVÁ Ing. Maroš KOMJATY Ing. Radovan KOVÁCS Ing. Dalibor KUŽMA Ing. Oskar SLOBODA

LABORATORIES, SPECIALIZED FACILITY

The Laboratory of Intelligent Control Systems of Jet Engines (LIRSLM in Slovakia) is situated in premises of the Faculty of Aeronautics of the Technical University in Košice. Our science and research activities in the LIRSLM mainly consist of solving the problems in the engine control, diagnostics, safety, effectiveness and reliability of the small turbojet engine MPM 20.

TEACHING

Undergraduate Study (Bc.)

Subject	Name of Lecturer
Aircraft Structures and Systems I.	Ing. Jozef JUDIČÁK, PhD.
Structural Mechanics of Aircraft Structures I.	Ing. Jozef JUDIČÁK, PhD.
Aviation Legislation	Ing. Marián HOCKO, PhD.
Aircraft Structures and Systems II.	Ing. Jozef JUDIČÁK, PhD.
Aircraft Piston Engines	Ing. Marián HOCKO, PhD.
Maintenance Procedures I.	Ing. Stanislav FÁBRY, PhD.
Air Force Legislation	Ing. Marián HOCKO, PhD.
Aircraft Turbocompressor Engines	Ing. Marián HOCKO, PhD.

Maintenance Procedures II.	Ing. Stanislav FÁBRY, PhD.
Organization and Management of Air Traffic	Ing. Stanislav FÁBRY, PhD.
Semester Project	Ing. Marián HOCKO, PhD. Ing. Jozef JUDIČÁK, PhD. Ing. Stanislav FÁBRY, PhD.
Maintenance Procedures III.	Ing. Stanislav FÁBRY, PhD.
Bachelor Thesis	Ing. Marián HOCKO, PhD. Ing. Jozef JUDIČÁK, PhD. Ing. Stanislav FÁBRY, PhD.
The Design of Aircraft, Aircraft Engines and Aircraft Systems	Ing. Jozef JUDIČÁK, PhD.

Graduate Study (Ing.)

Subject	Name of Lecturer
The Design and Strength of Aircraft I.	Doc. Ing. Ján PIĽA, PhD.
Technical Cybernetics	Ing. Ladislav FÖZÖ, PhD.
Theory of Aircraft Engines	Ing. Marián HOCKO, PhD.
Regulation of Aircraft Engines	Ing. Ladislav FÖZÖ, PhD.
Aircraft Airframe Systems	Doc. Ing. Ján PIĽA, PhD.
The Design and Strength of Aircraft Engines	Ing. Stanislav FÁBRY, PhD.
The Design and Strength of Aircraft II.	Doc. Ing. Ján PIĽA, PhD.
The Aviation Regulations	Ing. Marián HOCKO, PhD.
Testing of Aircraft and Aircraft Engines	Ing. Stanislav FÁBRY, PhD.
Diagnostic Systems	Ing. Stanislav FÁBRY, PhD.
Reliability of Aircraft	Ing. Stanislav FÁBRY, PhD.
Management of Maintenance and Repair	Ing. Stanislav FÁBRY, PhD.
Year Project-Design of Aircraft	Doc. Ing. Ján PIĽA, PhD.
Year Project-Aircraft Engines	Ing. Marián HOCKO, PhD.
Year Project-Maintenance Procedures	Ing. Stanislav FÁBRY, PhD.
Year Project-Designing Aircraft	Doc. Ing. Ján PIĽA, PhD.
Thesis Project	Doc. Ing. Ján PIĽA, PhD. Ing. Stanislav FÁBRY, PhD. Ing. Marián HOCKO, PhD. Ing. Stanislav FÁBRY, PhD.

Postgraduate Study (PhD.)

Subject	Name of Lecturer
Subject Theoretical Foundation I.	prof. Ing. Jozef POVAŽAN, CSc.
Subject Theoretical Foundation II.	prof. Ing. Jozef POVAŽAN, CSc.
Subject Specialization I.	prof. Ing. Jozef POVAŽAN, CSc.
Subject Specialization II.	prof. Ing. Jozef POVAŽAN, CSc.
Subject Specialization III.	prof. Ing. Jozef POVAŽAN, CSc.
Dissertation Project I.	prof. Ing. Jozef POVAŽAN, CSc.
Dissertation Project II.	prof. Ing. Jozef POVAŽAN, CSc.
Dissertation Project III.	prof. Ing. Jozef POVAŽAN, CSc.
Dissertation Project IV.	prof. Ing. Jozef POVAŽAN, CSc.
Selected Topics in Mathematics	RNDr. Viera MISLIVCOVÁ, PhD.
Selected Chapters from Physics	doc. RNDr. Ladislav TOMČO, PhD.
Theory of Measurement	prof. Ing. Jozef POVAŽAN, CSc.
Metrology and Diagnostics	prof. Ing. Jozef POVAŽAN, CSc.
Scientific Work and Experiment	Prof. Ing. Tobias LAZÁR, DrSc.
Mathematics and Computer Simulation	prof. Ing. Jozef POVAŽAN, CSc.
Methods of Measurement of Selected Variables	prof. Ing. Jozef POVAŽAN, CSc.
Aerodynamics and Flight Mechanics	Doc. Ing. Dušan NEŠTRÁK, CSc.
Diagnostic Systems Traffic Means	prof. Ing. Jozef POVAŽAN, CSc.
Selected Chapters of Construction Vehicles	prof. Ing. Jozef POVAŽAN, CSc.
Theory, Construction and Management of Aircraft Engines	prof. Ing. Jozef POVAŽAN, CSc.

Auxiliary Systems of Vehicles	prof. Ing. Jozef POVAŽAN, CSc.
Operation, Maintenance and Repair of Vehicles	prof. Ing. Jozef POVAŽAN, CSc.

RESEARCH PROJECTS

ESPOSA (Efficient Systems and Propulsion for Small Aircraft)

FP7 Program: 4th call FP7 EU – Aeronautics, Level 2 project grant agreement no: 284859

Responsible researcher: Ing. Zdeňek Palát - První brněnská strojírna Velká Bíteš

Researchers: prof. Ing. Jozef Považan, CSc. - Head of Participating Organization no.36, Ing. Ladislav Főző, PhD., Ing. Rudolf Andoga, PhD., Ing. Jozef Judičák, PhD., Ing. Peter Malatin

Period of the solution: 2011 – 2015

Package of Innovative Feature for Education Reform at TUKE (Package 2 and 4)

FA coordinator: doc. Ing. Ján Piša, PhD.

Researchers: doc. Ing. Ján Piša, PhD., Ing. Marián Hocko, PhD., Ing. Jozef Judičák, PhD., Ing. Peter Gašparovič, PhD., Ing. František Adamčík

Period of the solution: 2013 – 2015

CO-OPERATION

Co-operation in the Slovak Republic

- Faculty of Special Technology, Alexander Dubcek University of Trenčín
- Fakulty of Industrial Technology, Alexander Dubcek University of Trenčín
- Aeroport Košice
- SlovakTechnical Museum-Aviation Museum Košice
- LOTN Trenčín
- Tomark s.r.o. Prešov
- ATE Poprad
- Stredná odborná škola letecko-technická Trenčín
- Fakulty of Operation and Economics of Transport and Communications, University of Žilina
- Elite Aero GmbH & Co. KG, Košice
- SOVA Digital, Bratislava
- Aeroengineers International s.r.o Bratislava
- Ministerstvo obrany Slovenskej republiky
- Dopravný úrad Slovenskej republiky, Divízia civilného letectva
- Stredná priemyselná škola strojnícka v Prešove

International Co-operation

- University of West Bohemia in Pilzen, Faculty of Mechanical Engineering, Department of Power System Engineering
- Institute of air transport, Faculty of Engineering-Institute of transport, TU of Ostrava
- University of Defence in Brno, Faculty of Military Technology, Department of Aerospace and Rocket Technologies
- První brněnská strojírna Velká Bíteš, a.s.
- Unis, a. s. Brno
- ARDENT Brno s.r.o
- Výskumný a zkušební letecký ústav, a.s.
- Department of Air Transport, Transportation Faculty, Czech Technical University in Prague
- Polish Air Force Academy, Deblin, Poland
- Institute of Aviation, Warsaw, Poland
- Politechnika Śląska, Wydział transportu Katowice, Poland

- Óbuda University, Budapest, Hungary
- UNIS Brno a. s., Czech republic
- Budapest University of Technology and Economics, Hungary
- University of Leeds, Great Britain
- Aircom Sp. z o.o., Poland
- Airberlin Technik GmbH, Košice

Visitors to the Department

- Ing. František Bujalko, PhD., Ministerstvo obrany Slovenskej republiky
- Mgr. Róbert Tibenský, generálny riaditeľ sekcie modernizácie a podpory, Ministerstvo obrany Slovenskej republiky
- Otto Harák, jednateľ spoločnosti ARDENT Brno s.r.o
- Ing. Juraj Hub, Ph.D., University of Defence in Brno, Faculty of Military Technology, Department of Aerospace and Rocket Technologies
- Ing. Zdeněk Júza, Ph.D., MBA head of Department of Power System Engineering, Faculty of Mechanical Engineering, University of West Bohemia in Pilzen,
- doc. Ing. Jiří Polanský, Ph.D., University of Leeds, Great Britain,
- Prof. Ing. Vladimír Bella, CSc., AOS v Liptovskom Mikuláši
- Doc. Ing. Mariana Kuffová, PhD., AOS V Liptovskom Mikuláši

Visit of Staff Members to Foreign Institutions

- Ing. Marián Hocko, PhD. - University of West Bohemia in Pilzen, Faculty of Mechanical Engineering, Department of Power System Engineering, 7. – 9.1.2015
- Ing. Marián Hocko, PhD. - University of West Bohemia in Pilzen, Faculty of Mechanical Engineering, Department of Power System Engineering, 19. – 23.10.2015
- Ing. Marián Hocko, PhD. - University of West Bohemia in Pilzen, Faculty of Mechanical Engineering, Department of Power System Engineering, 23. – 27.11.2015
- Ing. Stanislav Fábry, PhD. - Test cell and controls instrumentation and EHM technologies for military air, land and sea turbine engines. Rzeszów University of Technology, Rzeszów, Poland, 20. – 23.4.2015
- Ing. Stanislav Fábry, PhD. - Application of Advanced Analysis Methods to the Health Monitoring of Gas Turbine Engines Operating in the Slovak Air Forces. National Research Council Canada, Institute for Aerospace Research, Ottawa, Canada. 01.06. – 05.06.2015
- doc. Ing. Ján Piľa, PhD. - Politechnika Śląska, Wydział transportu Katowice, Poland

Membership in International Organization and Societies

- doc. Ing. Ján Piľa, PhD., Member of Board of Journal Zeszyty naukowe, Polish Air Force Academy, Deblin, Poland
- doc. Ing. Ján Piľa, PhD., Member of Faculty Board, Politechnika Śląska, Wydział transportu Katowice, Poland
- doc. Ing. Ján Piľa, PhD., Member of Scientific Board of Journal Transactions of the Institute of Aviation, Institute of Aviation, Warsaw, Poland
- Ing. Marián Hocko, PhD. – Member of Board Department of Power System Engineering Faculty of Mechanical Engineering, University of West Bohemia in Pilzen,

OTHER ACTIVITIES

Project for Industry Companies

- Efficient Systems and Propulsion for Small Aircraft
prof. Ing. Jozef Považan, CSc., Ing. Ladislav Főző, PhD., Ing. Rudolf Andoga, PhD., Ing. Jozef Judičák, PhD.

GRADUATE THESES

THESIS TYPE	BACHELOR	MASTER	DOCTORAL
Number	15	19	1

BACHELOR'S THESES

NAME OF STUDENT	NAME OF THESIS
Jozef Pavlinský	Aerodynamic measurement of the modified aileron section of the VSO-10 sailplane wing
Juraj Štec	Internal fuel systems of the aviation piston engines
Lukáš Bajús	Space technologies
Michal Gál	Thrust vectoring of aircraft engines
Jakub Molčan	Electronic control systems of aircraft piston engines
Lukáš Gluch	Current issues of certification of aircraft and aircraft engines
Denis Brezík	Alternative fuels and international aviation organisations
Dávid Kubaský	Aircraft piston engines currently
Radoslav Galoci	Design of an airframe air distribution system module for the purpose of teaching of the subject airframe construction of aircraft
Peter Vírostek	Design of an airframe hydraulic system module for the purpose of teaching of the subject airframe construction of aircraft
Viktor Kovalík	Analysis of the mechanical properties and uses of plastics for 3D printing in aviation
Viktória Szemanová	Quality management in the process of winter maintenance of airport movement areas
Ivana Vargová	Safety of airport operations
Vladimíra Dorková	Marketing for small airports
Viktória Dubravčáková	Mikrologistic in terms of airport operations

MASTER'S THESES

NAME OF STUDENT	NAME OF THESIS
Bc. Zuzana Pecníková	Design of space vehicles
Bc. Martina Nižníková	Aircraft fuel management systems
Bc. Radovan Kovács	Calculation of 3D flow in the turbine and output tract of a small turbojet engine
Bc. Dominik Kireš	Use of CAx systems in the design elements selected builders of small aircraft
Bc. Lukáš Halás	Aerodynamic and design aspects of wing HLD
Bc. Miroslav Veselský	Use of CAx systems in the design connection of the main rotor blades of the helicopter
Bc. Štefan Talpáš	On-board maintenance and health usage monitoring systems
Bc. Rastislav Šatek	Interactive program guide for Computer Aided Design
Bc. Peter Pangrác	Small aircraft maneuvering and gust envelope calculation
Bc. Lukáš Rebič	Optimization of selected aircraft part with the support of CAx systems
Bc. Lukáš Lazík	Analysis of the flow in the radial compressor of the small jet engine MPM-20
Bc. Marián Murín	Aircraft protection systems analysis
Bc. Tomáš Gavlas	Measurement of strength characteristics of laminate materials
Ing. Jaroslav Szabo	Proposal modifications turboshaft engine TV3-117 on energy use
Bc. Erika Szepesiová	Design of a mathematical model of a small jet turbojet engine using the S-functions in Matlab
Bc. Norbert Ríz	Implementation of an analytical model of compressor of small jet engine to its control system
Bc. Arsenii Znakhurenko	Proposal of helicopter main rotor blades repair technology
Bc. Tomáš Chovanec	The influence of PVD coating on contact fatigue material
Bc. Dalibor Kužma	Kinematic of the main rotor

PhD. THESES

NAME OF STUDENT	NAME OF THESIS
Ing. Samer Abdol Al-rabeei	Use of individual software and computer simulation for design of air support systems

PUBLICATIONS

Books, textbooks

- AAA001 [162941] Aircraft systems / Ján Pil'a, Jarosław Kozuba, Grzegorz Peruń - 1. vyd. - Gliwice : Politechnika Śląska - 2015. - 248 p.. - ISBN 978-83-7880-226-6.
[PIL'A, Ján (34%) - KOZUBA, Jarosław (33%) - PERUŃ, Grzegorz (33%)]
- ABC001 [164932] Odolnosť gumových tesniacich materiálov voči biopalivám / Michal Dubovský, Marián Hocko, Milan Olšovský - 2015.In: Progres v polymérnych materiáloch. - Zlín : Gumárenskáskupina ČSPCH, 2015 P. 3-37. - ISBN 978-80-02-02628-0
[DUBOVSKÝ, Michal (30%) - OLŠOVSKÝ, Milan (30%) - HOCKO, Marián (40%)]
- ACA001 [163054] Procedurálne riadenie letovej prevádzky / Ľubomír Fábry, Matej Antoško, Peter Korba - 1. vyd - Ostrava : Sdružení požárního a bezpečnostního inženýrství - 2015. - 162 p.. - ISBN 978-80-7385-160-6.
[FÁBRY, Ľubomír (50%) - ANTOŠKO, Matej (30%) - KORBA, Peter (20%)]
- BCI001 [157217] Piestový motor / Marián Hocko - 1. vyd. - Košice : TU - 2015. - 276 s. [CD ROM]. - ISBN 978-80-553-2047-2.[HOCKO, Marián (100%)]

Journals

- ADF001 [156011] Experimentálne vozidlo na "vodíkový" pohon / Aurel Sloboda, Oskár Sloboda - 2015.In: Strojárstvo. Roč. 19, č. 2 (2015), s. 72-73. - ISSN 1335-2938
[SLOBODA, Aurel (40%) - SLOBODA, Oskár (60%)]
- ADF002 [162652] Risk elimination in air transport / Martin Petruš ... [et al.] - 2015.In: Acta Avionica. Roč. 17, č. 1 (2015), s. 62-67. - ISSN 1335-9479 Spôsob prístupu: <http://web.tuke.sk/lf/index.php?name=68>. [PETRUF, Martin (25%) - KOLESÁR, Ján (25%) - KOŠČÁK, Peter (25%) - FERENC, Ján (25%)]
- ADF003 [163339] Experimental verification of unstable centrifugal compressor work on small jet engine / Marián Hocko - 2015.In: Acta Avionica. Roč. 17, 31 č. 1 (2015), s. 21-30. - ISSN 1335-9479 [HOCKO, Marián (100%)]
- ADF004 [166485] Energy safety at the airport / Viktória Rudasová, Peter Koščák - 2015.In: Acta Avionica. Roč. 17, č. 2 (2015), s. 1-6. - ISSN 1339-5853 [RUDASOVÁ, Viktória (50%) - KOŠČÁK, Peter (50%)]
- ADF005 [166490] Analysed accidents rate of aircrafts Boeing 737 and Airbus A320 / Dorota Božíková, Peter Koščák - 2015.In: Acta Avionica. Roč. 17, č. 2 (2015), s. 1-5. - ISSN 1339-9853 [BOŽÍKOVÁ, Dorota (50%) - KOŠČÁK, Peter (50%)]
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 - AFD020 [162674] The main issues of integrating UAV into the airspace / Viktor Balaščík, Patrik Buk, Monika Vaľušová - 2015.In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. - Košice : TU, 2015 S. 00-1-00-7. - ISBN 978-80-553-2136-3 [BALAŠČÍK, Viktor (30%) - BUK, Patrik (40%) - VALUŠOVÁ, Monika (30%)]
 - AFD021 [162677] Creating of organizational structure of airline / Viktor Balaščík, Patrik Buk, Monika Vaľušová - 2015.In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. - Košice : TU, 2015 S. 00-1-00-5. - ISBN 978-80-553-2136-3 [BALAŠČÍK, Viktor (30%) - BUK, Patrik (30%) - VALUŠOVÁ, Monika (40%)]
 - AFD022 [163055] Umiestňovanie technických zariadení pre sledovanie letovej prevádzky / Matej Antoško, Ľubomír Fábry, Jana Cibereová - 2015.In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. - Košice : TU, 2015 S. 00-1-00-12. - ISBN 978-80-553-2136-3 [ANTOŠKO, Matej (50%) - FÁBRY, Ľubomír (40%) - CIBEREOVÁ, Jana (10%)]
 - AFD025 [163074] Predikcia aeroelastických vlastností krídel ľahkých lietadiel / Oskár Sloboda - 2015.In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. - Košice : TU, 2015 S. 00-1-00- 6. - ISBN 978-80-553-2136-3 [SLOBODA, Oskár (100%)]

- AFD026 [163144] Inovatívne prístupy pri tvorbe e-learningu / Jana Cibereová, Peter Korba, Jozef Sabo - 2015.In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. - Košice : TU, 2015 S. 00-1-00-7. - ISBN 978-80-553-2136-3 [CIBEREOVÁ, Jana (40%) - KORBA, Peter (30%) - SABO, Jozef (30%)]
- AFD027 [163146] Softvér NX ako nástroj zvyšovania konkurencieschopnosti / Peter Korba, Jana Cibereová, Jozef Sabo - 2015.In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. - Košice : TU, 2015 S. 00-1-00-6. - ISBN 978-80-553-2136-3 [KORBA, Peter (40%) - CIBEREOVÁ, Jana (30%) - SABO, Jozef (30%)]
- AFD028 [163147] Výber leteckej techniky pre lety na dlhé vzdialenosť / Jozef Sabo, Jana Cibereová, Peter Korba - 2015.In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. - Košice : TU, 2015 S. 00-1-00-7. - ISBN 978-80-553-2136-3 [SABO, Jozef (40%) - CIBEREOVÁ, Jana (30%) - KORBA, Peter (30%)]
- AFD029 [163152] Využívanie CAx systému pri projektovaní letiskových prevádzkových plôch / Peter Korba, Jana Cibereová, Eva Piľová - 2015.In: Bezpečnosť - Kvalita - Spoľahlivosť. - Košice : TU, 2015 S. 105-109. - ISBN 978-80-553-2044-1 [KORBA, Peter (50%) - CIBEREOVÁ, Jana (40%) - PIĽOVÁ, Eva (10%)]
- AFG001 [167857] Influence of icing to the aircraft safety / Ján Piľa, Michal Hovanec, Zuzana Hajduová - 2015.In: Quality and leading in innovation. - Košice/Uzhgorod : TU/Uzhgorod national university, 2015 P. 125-125. - ISBN 978-617-589-103-2 [PIĽA, Ján (34%) - HOVANEC, Michal (33%) - HAJDUOVÁ, Zuzana (33%)]
- AFG002 [167862] On-board maintenance and health usage monitoring systems / Ján Piľa, Peter Korba, Zuzana Hajduová - 2015.In: Quality and leading in innovation. - Košice/Uzhgorod : TU/Uzhgorod national university, 2015 P. 126-126. - ISBN 978-617-589-103-2 [PIĽA, Ján (34%) - KORBA, Peter (33%) - HAJDUOVÁ, Zuzana (33%)]
- AFH001 [158092] Technická podpora leteckého priemyslu simultánnym inžinierstvom / Martin Petruš, Jozef Považan, Ján Kolesár - 2015.In: Engineering Sciences and Production Management 2015. - Košice : Petit, 2015 S. 157-157. - ISBN 978-80-971555-4-4 [PETRUŠ, Martin (40%) - POVAŽAN, Jozef (30%) - KOLESÁR, Ján (30%)]
- AFH002 [158093] Aplikácia prognostických metód v procese plánovania ponuky a dopytu v leteckej doprave / Ján Kolesár, Martin Petruš - 2015.In: Engineering Sciences and Production Management 2015. - Košice : Petit, 2015 S. 32-32. - ISBN 978-80-971555-4-4 [KOLESÁR, Ján (50%) - PETRUŠ, Martin (50%)]
- BDF001 [155243] SjF TU v Košiciach a výroba experimentálnych vozidiel / Aurel Sloboda, Oskár Sloboda - 2015.In: MOT'or. Roč. 15, č. 1 (2015), s. 34-35. - ISSN 1336-4200 [SLOBODA, Aurel (50%) - SLOBODA, Oskár (50%)]
- BDF002 [156125] SjF TU v Košiciach a výroba experimentálnych vozidiel Shel Eco-marathon, vozidlo B&S 2 (pokračovanie) / Aurel Sloboda, Oskár Sloboda - 2015.In: MOT'or. Február (2015), s. 34-36. - ISSN 1336-4200 [SLOBODA, Aurel (30%) - SLOBODA, Oskár (70%)]
- BDF003 [157083] SjF TU v Košiciach a výroba experimentálnych vozidiel Shel Eco-marathon, vozidlo B&S 4/ Aurel Sloboda, Oskár Sloboda - 2015.In: MOT'or. Marec (2015), s. 52-54. - ISSN 1336-4200 [SLOBODA, Aurel (30%) - SLOBODA, Oskár (70%)]
- BDF004 [158982] SjF TU v Košiciach a experimentálne vozidlo na "vodíkový" pohon Shel Eco-marathon, vozidlo B&S 5 Jeep Willys/ Aurel Sloboda, Oskár Sloboda - 2015.In: MOT'or. Máj (2015), s. 62-64. - ISSN 1336-4200 [SLOBODA, Aurel (20%) - SLOBODA, Oskár (80%)]
- BDF005 [166497] Aerodrome certification for sports / Bibiána Hudáková, Peter Koščák - 2015.In: Acta Avionica. Roč. 17, č. 2 (2015), s. 1-6. - ISSN 1339-9853 [HUDÁKOVÁ, Bibiána (50%) - KOŠČÁK, Peter (50%)]
- BDF006 [166506] Airport maintenance and impact to safety airport operation / Erika Lelkeš, Peter Koščák - 2015.In: Acta Avionica. Roč. 17, č. 2 (2015), s. 1-4. - ISSN 1339-9853 [LELKEŠ, Erika (50%) - KOŠČÁK, Peter (50%)]
- BDF007 [166514] Special airport fire trucks / Peter Mihok, Peter Koščák - 2015.In: Acta Avionica. Roč. 17, č. 2 (2015), s. 1-6. - ISSN 1339-9853 [MIHOK, Peter (50%) - KOŠČÁK, Peter (50%)]
- BDF008 [166524] Stolports and their using in the terms of Slovak republic / Kitti Molnárová, Peter Koščák - 2015.In: Acta Avionica. Roč. 17, č. 2 (2015), s. 1-4. - ISSN 1339-9853 [MOLNÁROVÁ, Kitti (50%) - KOŠČÁK, Peter (50%)]
- BDF009 [166527] Requirements for airports obstacle limitation / Alexandra Peszekiová, Peter Koščák - 2015.In: Acta Avionica. Roč. 17, č. 2 (2015), s. 1-4. - ISSN 1339-9853 [PESZEKIOVÁ, Alexandra (50%) - KOŠČÁK, Peter (50%)]

- BDF010 [166529] Safety on the apron / Slavomíra Šoltisová, Peter Koščák - 2015.In: Acta Avionica. Roč. 17, č. 2 (2015), s. 1-6. - ISSN 1339-9853 [ŠOLTISOVÁ, Slavomíra (50%) - KOŠČÁK, Peter (50%)]
- BDF011 [166542] Identification systems control and the protection of personallity / Ivan Pahut, Ján Kolesár - 2015.In: Acta Avionica. Roč. 17, č. 32-No.2 (2015), s. 1-4. - ISSN 1339-9853 [PAHUT, Ivan (50%) - KOLESÁR, Ján (50%)]
- BDF012 [166544] Analysis of the health risk of selected professions of airport workers / Patrik Svatko, Ján Kolesár - 2015.In: Acta Avionica. Roč. 17, č. 32-No.2 (2015), s. 1-5. - ISBN 1339-9853 [SVATKO, Patrik (50%) - KOLESÁR, Ján (50%)]
- BDF013 [166546] Analysis objektives SMS and possibilites to increase airport security culture of staff / Veronika Vargovčáková, Ján Kolesár - 2015.In: Acta Avionica. Roč. 17, č. 32-No.2 (2015), s. 1-5. - ISSN 1339-9853 [VARGOVČÁKOVÁ, Veronika (50%) - KOLESÁR, Ján (50%)]
- BDF014 [166548] Charakteristic of random processes and phenomena in handling of Aircraft, passangers and baggage at an airport / Slavomír Dlabaj, Ján Kolesár - 2015.In: Acta Avionica. - 2016 Roč. 17, č. 32-No.2 (2015), s. 1-7. - ISSN 1339-9853 [DLABAJ, Slavomír (50%) - KOLESÁR, Ján (50%)]
- BEE001 [156624] Úprava skúšobného stendu na diagnostiku leteckého hydrogenerátora NP-27 / Ján Piľa, Oskár Sloboda, Aurel Sloboda - 2015.In: Technická diagnostika. Vol. 24, no. z1 (2015), p. 173-177. - ISSN 1210-311X [PIĽA, Ján (40%) - SLOBODA, Oskár (40%) - SLOBODA, Aurel (20%)]
- BEE002 [164330] Properties of Broezel static probe / Peter Gašparovič, Karol Semrád, Miroslava Cúttová - 2015.In: Experimental Fluid Mechanics 2015. - [Liberec : Petra Dančová and Martin Veselý], 2015 P. 194-197.[GAŠPAROVIČ, Peter (34%) - SEMRÁD, Karol (33%) - CÚTTOVÁ, Miroslava (33%)]
- BEE003 [165049] Diagnostics of gas turbines based on changes in thermodynamics parameters / Marián Hocko, Marek Klimko - 2015.In: Experimental Fluid Mechanics 2015. - [Liberec : Petra Dančová and Martin Veselý], 2015 P. 278 -283.[HOCKO, Marián (70%) - KLIMKO, Marek (30%)]
- BEE004 [167836] Analýza prúdenia v odstredivom kompresore malého prúdového motora MPM-20 / Lukáš Lazík, Marián Hocko - 2015.In: Power system engineering, thermodynamics and fluid flow ES 2015. - [Plzeň : ZČU], 2015 P. 1-10. - ISBN 978-80-261-0520-6 [LAZÍK, Lukáš (50%) - HOCKO, Marián (50%)]
- EAI001 [163753] 10 rokov Leteckej fakulty Technickej univerzity v Košiciach 2005 - 2015 / František Adamčík ... [et al.] - 1. vyd. - Košice : TU, LF - 2015. - 256 s.. - ISBN 978-80-553-2207-0.[ADAMČÍK, František (8%) - DRABIŠČÁK, Jozef (8%) - KALAVSKÝ, Peter (8%) - KOMOVÁ, Eva (8%) - KURDEL, Pavol (8%) - VAGNER, Juraj (8%) - BÁLINT, Ján (8%) - BRÉDA, Róbert (8%) - HOCKO, Marián (6%) - KIŠ, Slavomír (8%) - MISLIVCOVÁ, Viera (8%) - POVAŽAN, Jozef (6%) - PRASLIČKA, Dušan (8%)]

PUBLICATION TYPE	BOOKS TEXTBOOKS	CONFERENCE PROCEEDINGS		JOURNALS		OTHER	Σ
		Foreign	Home	Foreign	Home		
Number	5	19	34	11 (5)*	12	1	102

* SCOPUS

Patents, certificates

Certificate: Maintenance Training and examination Organization approval CAA of Slovak Republic certificate - Reference: SK.147.0003

DEPARTMENT OF AVIATION TECHNICAL STUDIES

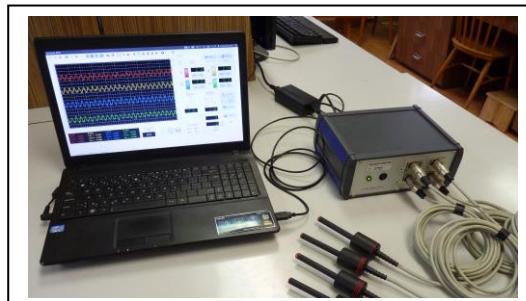
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DEPARTMENT'S PROFILE

The Department was founded on the 1st September 1979 as a part of the Military Aviation University of the Slovak National Uprising in Košice under the name Department of Electrotechnics and Electronics. After consequential extinction of the Air Force Academy and after the formation of the Faculty of Aeronautics of the Technical University of Košice the structure of the Department was changed and from the 1st September 2004 the today's name - Department of Aviation Technical Studies (DATS) began using. During the last more than 30 years of its existence the Department has become a recognized and respected partner of many academic and research institutions and companies.

The primary mission of the Department is to offer, organize and provide university study and lifelong education for aviation study programs and to realize creative scientific research in the area of sensorics, aviation engineering and aviation electrotechnics. The DATS performs basic and applied research in the selected areas of aviation and industrial electrotechnics and engineering, particularly in sensorics, magnetometry, material engineering and unmanned aerial vehicles.

Education-Related Activities

In the pedagogical area the Department guarantees teaching of fundamental, specialized and profile subjects for the theoretical preparation in electrotechnical and engineering specializations at the Faculty of Aeronautics. In the aviation specialization the Department provides education of fundamental electrotechnical and engineering subjects in accordance with national and international aviation regulations. The Department co-guarantees university education in the study branch 5.2.13 Electronics in all three degrees of the university study offered in accredited study programs:

First degree - Bachelor's study - Avionics systems

Second degree - Engineer's study - Sensorics and avionics systems

Third degree - PhD. study - Aviation and industrial electronic systems

The department also provides the higher level education in study field 5.2.4 Motor vehicles, railway vehicles, ships and aircrafts for the study programmes as follows:

First degree - Bachelor's degree programme - Aircraft Operation

Second degree - Master's degree programme - Aircraft Operation

Third degree - PhD. study programme - Aircraft Operation

Research and Development Activities

In the scientific area the Departments realizes basic and applied scientific research. The basic scientific research is focused on the construction of sensors of physical fields, design of circuits of magnetic field sensors, digital signal processing, design of digital filters, navigation according to physical fields, measurement of physical quantities and neural networks design. In the area of aviation engineering the basic research is focused on the determination of mechanical material characteristics, mainly of the fatigue of metals, including metallographic analysis. In the area of motor diagnostics the research is focused on the vibrodiagnostics.

The applied scientific research at the Department is focused mainly on the construction of electromagnetic impulse systems, contactless diagnostics, and analysis of ferromagnetic materials' and microwires' characteristics, on the analysis of electromagnetic smog, on the development, testing and calibration of various types of sensors and other.

STAFF

Professors:	prof. Ing. Dušan RODZIŇÁK, CSc. doc. Ing. Jozef HUDÁK, CSc., mimoriadny profesor
Associate Professors:	doc. Ing. Václav MOUCHA, CSc. doc. Ing. Dušan PRASLIČKA, PhD. doc. Ing. Rudolf ZAHRADNÍČEK, CSc.
Assistant Professors:	Ing. Ivan MIKITA, PhD. Ing. Karol SEMRÁD, PhD.
Senior Scientists:	Ing. Katarína DRAGANOVÁ, PhD. Ing. Pavol LIPOVSKÝ, PhD. Ing. Miroslav ŠMELKO, PhD.
Technical Staff:	Ing. Mária JOZEKOVÁ
PhD. Students:	Ing. Jozef ČERNÁN Ing. Norbert FLACHBART Ing. Viktor KÁN Ing. Ján BAJÚS Ing. Tomáš VOLČKO Ing. Tomáš KLIMENT

LABORATORIES, SPECIALIZED FACILITY

Characteristics of workstations

Employees of the DATS have built for the theoretical and practical education of eight student's laboratories, two specialized workstation, one computer classroom, three general classrooms, electrotechnical and engineering workroom. The Department disposes of good technical, instrumental and space equipment for the science and research activities, education and solution of practical tasks within the frame of bachelor and diploma thesis.

- General classrooms

Classrooms are used for teaching of general and technical subjects. They are accommodated for the groups from 24 to 104 students. Classrooms are equipped with necessary didactic equipment. The Department disposes of B16-28, B14-5, B14-6, B14-19, B15-14, UB-131 and UB-133 classrooms.

- PC-based classroom B14/20

Characteristics of the classroom: The B14/20 classroom offers possibility for teaching of electrotechnical subjects such as Electrical Measurement, Applied Sensorics, Modelling and Simulation, during which it is necessary to use various specialized software. Computers are equipped with the programs such as MATLAB, MultiSIM, QuickField, OrCAD or Fedora Electronic Lab. It is also possible to provide here engineering activities in the area of CAD-Computer Aided Design, CAM-Computer Aided Manufacturing and CAE-Computer Aided Engineering.

Laboratories

Our laboratories create the most important part of the material and technical basis of the Department of aviation technical studies. They offer spatial and technical resources for the pedagogic and scientific activities. A wide scale of measurement devices, stands, aids and specialized software allows in the practical part of the teaching process of electrotechnical and engineering subjects to realize a wide range of experimental tasks and within the framework of the scientific area to perform demanding measurements of the fundamental and applied research. Currently the Department consists of eight specialized laboratories.

- Laboratory of sensorics - B15/L21

Characteristics of the laboratory: At the laboratory basic research of sensors of the weak magnetic fields, design and construction of relaxation magnetometers, development of methods for the metrology of the vector sensors of the physical fields and design and development of the magnetometric methods for the metal detection, archaeology and ecology is performed.

- Laboratory of electronics - B15/L22

Characteristics of the laboratory: The laboratory of electronics offers the students workstations with the technical equipment for the acquisition of practical skills mainly in the areas of verifying of the characteristics of the analogue and digital electronic components and circuits, in the area of verifying of the principles and fundamental functions of sensors for industrial, transport, aviation, safety and security systems and in the area of verifying of the fundamental tasks of security systems modelling and simulations of the electronics circuits' function.

- Laboratory of electrotechnics - B15/L23

Characteristics of the laboratory: In the laboratory functional specimens and prototypes of the solved scientific tasks are realized and measured and various experiments on the power electromagnetic systems and magnetic field actuators are realized. Measurements and experiments within the frame of bachelor, engineering and dissertation thesis are performed.

In the laboratory also other electrotechnical measurements and experiments within the frame of the scientific work of the Department are realized.

- Laboratory of electrical measurements - B15/L24

Characteristics of the laboratory: The laboratory is assigned on the practical measurement of active and passive electrical and non-electrical quantities, on the measurement of characteristics of the analogue and digital sensors and measuring devices, verifying and comparison of measurement methods, verifying of properties of the sources of the stimulation signals, on the formation of automated measuring workstations and on the acquirement of skills in the operation and selection of measurement devices.

- Laboratory of diagnostics - B15/L15

Characteristics of the laboratory: The laboratory is equipped with the R-MAT and AXMAT devices assigned for the material testing and analysis of contact fatigue in axial and radial direction for the aviation engines as well as for other types of technical appliances - for example of automotive or other technical devices.

- Laboratory of applied magnetometry - B15/L16

Characteristics of the laboratory: The laboratory is used for the research of magnetic sensors mainly on the basis of amorphous and nano-crystalline materials as well as on the basis of magnetic microwires. At the laboratory research and development of methods for signal measurement and processing for magnetometric systems and testing of sensors and magnetometers is realized. Industrial and laboratory systems with original sensors, measurements methods, intelligent signal processing and visualisation are used.

- Laboratory of sensor measuring systems - B43 / L049

The laboratory has built five measurement workplaces:

- each workstation is equipped with basic measuring equipments
- for each workplace are implemented measuring stands (for Raspberry Pi - KL25Z - modules)

- Laboratory of mechanical elements design UAS - B43 / L026

In the laboratory, students can benefit from:

- two workplaces for manual machining (mechanical works)
- two workplaces for CNC milling
- two departments for 3D Printing

Specialized workstation

- Testing of electronic subsystems for UAS electronics - B43/032

Characteristics of the workstation: The workstation is focused mainly on the realization of on-board feeding, sensoric, navigation, control and telemetric subsystems. The design and realization of new original connection of circuits, sensors and systems as well as design of new integration and control algorithms for particular subsystems is assumed. The primary goal is an original combination of on-board sensoric subsystem with exploration sensorics, mainly with the visual camera, thermo vision and physical and chemical sensors.

- Workplace for testing unmanned systems - Hall 024

Technical equipment was built on the hall for testing unmanned Avionics systems (UAS) specifically for small multirotors funds, testing kinetic characteristics of micro and mini UAV and workplace for multipositioning static tests of IMU sensors

TEACHING

Bachelor Study Programme (Bc.)

Subject	Name of Lecturer
Signals analysis	Ing. Miroslav Šmelko, PhD.
Computer Aided Design II	Ing. Karol Semrád, PhD.
Computer Aided Design I	Ing. Karol Semrád, PhD.
Metallic and Non Metallic Materials	Ing. Jozef Čerňan, PhD.
Materials, Technologies and Engine Parts	Ing. Miroslav Šmelko, PhD.
Mechanisms and Aircraft Gadgetries	doc. Ing. Rudolf Zahradníček, CSc.
Modelling and Simulations in Electrical Engineering	Ing. Pavol Lipovský, PhD.
Seminars from Metallic and Non Metallic Materials	Ing. Jozef Čerňan, PhD.
Technical Documentation and Constructive Geometry	doc. Ing. Rudolf Zahradníček, CSc.
Technical Documentation and Regulations	Ing. Ivan Mikita, PhD.
Technical Mechanics	doc. Ing. Rudolf Zahradníček, CSc.
Fundamentals of Electronics I	doc. Ing. Václav Moucha, CSc.
Electrical Measurements	doc. Ing. Jozef Hudák, CSc., mimoriadny profesor
Computer Aided Design I	Ing. Karol Semrád, PhD.
Aviation Technologies	Ing. Jozef Čerňan, PhD.
Programming in Electrotechnics	Ing. Pavol Lipovský, PhD.
Elasticity and Strength	doc. Ing. Rudolf Zahradníček, CSc.
Seminars from Aviation Technologies	Ing. Jozef Čerňan, PhD.
Seminars from Electronics	doc. Ing. Václav Moucha, CSc.
Seminar from Electrotechnics	doc. Ing. Jozef Hudák, CSc., mimoriadny profesor
Fundamentals of Electronics II	doc. Ing. Václav Moucha, CSc.
Fundamentals of Electrotechnics	Ing. Ivan Mikita, PhD. Ing. Miroslav Šmelko, PhD.
Fundamentals od Cybernetics	Ing. Katarína Draganová, PhD.
Fundamentals of Aviation Electrotechnics and Electronics	Ing. Ivan Mikita, PhD. Ing. Miroslav Šmelko, PhD.

Master Study Programme (Ing.)

Subject	Name of Lecturer
Computer Aided Methods of Structure Design	Ing. Karol Semrád, PhD.
Electrotechnologies	Ing. Ivan Mikita, PhD. doc. Ing. Václav Moucha, CSc.
Computer Aided Design II	Ing. Karol Semrád, PhD.
Microsystems and Nanotechnologies	Ing. Pavol Lipovský, PhD. doc. Ing. Jozef Hudák, CSc., mimoriadny profesor
Semestral Project from Sensorics II	doc. Ing. Dušan Praslička, PhD.
Measuring Systems in Sensorics	doc. Ing. Jozef Hudák, CSc., mimoriadny profesor
Signals and Systems	doc. Ing. Dušan Praslička, PhD.
Sensors of Physical Quantities	Ing. Katarína Draganová, PhD.
Theory of Electromagnetic Field	doc. Ing. Dušan Praslička, PhD.
Computer Aided Engineering in Aviation	Ing. Karol Semrád, PhD.
Digital Signal Processing	doc. Ing. Václav Moucha, CSc. doc. Ing. Dušan Praslička, PhD.
Smart Sensors	Ing. Miroslav Šmelko, PhD.
Semestral Project from Sensorics I	doc. Ing. Dušan Praslička, PhD.
Sensorics of Safety and Security Systems	doc. Ing. Václav Moucha, CSc.
Sensorics of Aviation and Transportation Systems	doc. Ing. Václav Moucha, CSc.

Systems for Data Acquisition and Processing	Ing. Pavol Lipovský, PhD.
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Doctoral Study Programme (PhD.)

Subject	Name of Lecturer
Analysis of Signals and Systems	doc. Ing. Dušan Praslička, PhD.
Digitalization and Digital Signal Processing	doc. Ing. Václav Moucha, CSc.
Electronics of Safety and Security Systems	doc. Ing. Václav Moucha, CSc.
Magnetometry	doc. Ing. Dušan Praslička, PhD.
Mathematic and Computer Simulation of Electronic Circuits and Systems	doc. Ing. Dušan Praslička, PhD.
Metrology and Technical Diagnostics	doc. Ing. Jozef Hudák, CSc., mimoriadny profesor
Measuring Systems in Sensorics	doc. Ing. Jozef Hudák, CSc., mimoriadny profesor
Measured Data Processing	doc. Ing. Jozef Hudák, CSc., mimoriadny profesor
Dissertation Examination	doc. Ing. Dušan Praslička , PhD.
Individual and Team Research Work	doc. Ing. Dušan Praslička , PhD.
Dissertation Thesis	doc. Ing. Václav Moucha, CSc.

RESEARCH PROJECTS

Project identifier: APVV-0266-10

Project name: SEMAMID – Sensors Based on Magnetic Microwires

Project duration: 05/2011 - 10/2014 – successfully closed project, under monitoring

Project scope: The SEMAMID project is focused on applied research and development of modern magnetic sensors based on magnetic microwires for selected industrial application, such for examples conveyor belt diagnostic systems or monitoring of material structures – as for example missile, aircraft, reservoir structures made from composites.

Chef researcher: doc. Ing. Dušan Praslička, PhD.

Project identifier: VEGA 1/0286/13

Project name: Contact-less Microsensors of Internal Mechanical Stresses in Composite Materials

Project duration: 01/2013 - 12/2015

Project scope: The goal of the project is to design and electronically realize miniature contact-less sensors - tensometers based on the amorphous or nano-crystalline magnetic microwires, which thanks to their dimensions can be embedded between the layers of composite materials.

Chef researcher: doc. Ing. Dušan Praslička, PhD.

Project identifier: KEGA 028TUKE-4/2013

Project name: Integrated Study Programme "Unmanned Aerial Systems"

Project duration: 01/2013 - 12/2015

Project scope: The project is focused on the integration of theoretical and practical knowledge into the educational process with the emphasis placed on the practical utilization of modern construction technologies and applications of unmanned aerial vehicles.

Chef researcher: doc. Ing. Václav Moucha, CSc.

Project identifier: OPV-2011/1.2/03-SORO - ASFEU

Project name: Package 04, Activity 1.1.Preparation of study materials and realization of methods in the study programmes for increasing of their attractiveness MODULE M3 M4 M6

Project duration: 09/2013 - 06/2015
Chef researcher: doc. Ing. Václav Moucha, CSc.

Project identifier: OPV-2011/1.2/03-SORO - ASFEU
Project name: Package 04, Activity 1.2. Innovation of Study Programmes for the Labour Market and Creation of Study Programmes in the World Language, Unmanned Aerial Systems Technology, Study programme
Chef researcher: doc. Ing. Jozef Hudák, CSc. mimoriadny profesor

Project identifier: OPV-2011/1.2/03-SORO - ASFEU
Project name: Package 04, Activity 3.1. Programme of Education and Increasing Number of PhD. Students at TUKE PhD. Students
Project duration: 09/2013 - 06/2015
Chef researcher: doc. Ing. Jozef Hudák, CSc., mimoriadny profesor

CO-OPERATION

The Department of Aviation Technical Studies of the Faculty of Aeronautics of the Technical University of Košice has been established and co-operated on the long-term basis in various areas with multiple universities, institutes of academies of sciences and companies.

Areas in which we have offered co-operation for the partners from practice are:

- research and development of contactless embedded tensile stress and temperature sensors,
- research of special sensors and electronic units according to the customers' requirements,
- testing of properties of magnetic materials and sintered steels,
- magnetic measurements, mapping and analysis of stationary and low-frequency magnetic fields,
- co-operation in the development of intelligent multi-sensor systems,
- testing of accelerometers, gyroscopes and magnetometers for aerial vehicles and practice,
- stabilization and navigation of objects on the basis of physical fields,
- design, testing and optimization of carrying constructions with high modularity,
- design and manufacturing of mould making for plastic components,
- CAD/CAM model of a real component preparation.
- manufacturing of real models using 3D print from CAD/CAM models,
- realization of engineering computational tasks using CAE,
- testing of contact fatigue metal materials with various surface modification,
- analysis damage of surface layers of metal materials exposed to the contact fatigue testing,
- basic metallographic analysis of metal material surfaces after tribological testing,
- measurements of vibrations on the traction mechanisms and following analyses of measured vibrational spectrums.

Co-operation in Slovakia the Republic

- EDIS vvd, Košice
- Pavol Jozef Šafárik University in Košice, Faculty of Science, Institute of Physics
- Slovak Academy of Sciences, Institute of Experimental Physics, Košice
- Slovak Academy of Sciences, Institute of Materials Research, Košice
- Slovak Academy of Sciences, Institute of Parasitology, Košice
- Armed Forces Academy of General Milan Rastislav Štefánik, Liptovský Mikuláš
- University of Žilina, Faculty of Mechanical Engineering, Department of Energy Technology

- University of Žilina, Faculty of Operation and Economics of Transportation and Connections, Department Air Transportation,
- Slovak Academy of Sciences, Institute of Geotechnics, Košice
- STATON Ltd. Engineering Company, Turany
- FIRST WELDING, a. s., R & D and production, certification - consulting company, Bratislava
- TOMARK s. r. o., Prešov
- PROCONT s. r. o., Prešov
- VUKOV EXTRA, a. s., Prešov
- TRUMPF Slovakia, s. r. o., Košice
- BÖHLER – UDDEHOLM SLOVAKIA, s. r. o., Martin
- INCOFF, s. r. o., Nábrežná 8, Nové Zámky
- SOSA – Slovak Organisation for Space Activities, Bratislava

International Co-operation

- Basque Country University, UPV/EHU, Group of Magnetism, San Sebastian, Spain
- Czech Technical University in Prague, Faculty of Electrical Engineering, Department of Measurement, Czech Republic
- Třinecké železárny, Třinec, Czech Republic
- Severočeské doly a.s., Chomutov, Czech Republic
- MBDA Italia S.p.A., Italy
- TESEO S.p.A., Italy
- AVIOSPACE S.r.l, Italy
- UNIVERSITÀ DI PISA, Italy
- BAYERN-CHEMIE, Germany
- MAHYTECH, France
- ARDORAN OU, Estonia
- METROSET Tallinn, Estonia
- Elec (Electronics Design), Estonia
- ALGOSYSTEMS, Greece
- TSI (Telecommunications Systems), Greece
- Technical University in Brno, Faculty of Mechanical Engineering, Institute of Aeronautics
- University of Defence, Faculty of Military Technology Brno, Department of Aerospace and Rocket Technologies, Czech Republic

Membership in Slovak Organizations and Societies

- SMAGS - ZSVTS - Slovak Magnetic Society:
 - Secretary: Ing. Pavol Lipovský, PhD.
 - Treasurer: Ing. Katarína Draganová, PhD.
 - Members: doc. Ing. Dušan Praslička, PhD., doc. Ing. Jozef Hudák, CSc., Ing. Ivan Mikita, PhD., Ing. Miroslav Šmelko, PhD., Ing. Viktor Kán

OTHER ACTIVITIES

The Department built up and has maintained the e-learning system www.moodle.leteckafakulta.sk at the Faculty of Aeronautics.

For the purpose of enhancement of education in the area of sensorics and of the exchange of technical information about sensoric systems the Department built the web page www.senzorika.leteckafakulta.sk.

In addition to the university study, the Department also offers education for aviation specialists according to the Part-66 in the M03, M04 and M06 modules, which enables the successful graduates to obtain an international aircraft maintenance license.

skCUBE National Project

The Faculty of Aeronautics of the Technical University of Košice has been involved in the national project for the construction of the first Slovak satellite named "skCUBE", the organiser of which is the Slovak Organisation for Space Activities (SOSA). The project is focused on the space research and its goals is the construction of the small satellite named skCUBE with the cube shape and the dimensions of 10x10x10 cm, with the weight of 1 045 g, which will be carried to the space from the Vandenberg cosmodrome in California by the Falcon 9 missile of the American company SpaceX in May 2016. It will be positioned in the orbit in the height of 450 – 720 km and will fly round the Earth once per 90 minutes with the velocity of 28 000 km/h. The satellite will record magnetic waves from the electromagnetic spectrum coming from the depth space. Into the project are involved employees and PhD. students from the Faculty of Aeronautics of the Technical University of Košice: Ing. Miroslav Šmelko, PhD., Ing. Pavol Lipovský, PhD., Ing. Viktor Képeši, PhD., Ing. Tomáš Vaispacher, Ing. Tomáš Kliment and Ing. Marek Češkovič, PhD.

Partial tasks of the project solutionists from the DATS:

Ing. Lipovský Pavol, PhD.

In the project framework he solves together with Ing. Kliment calibration of the selected sensors and the pre-processing of signals for the satellite position determination algorithms. Together with Ing. Vaispacher he deals with the skCUBE navigation tasks.

Ing. Šmelko Miroslav, PhD.

In the project he solves onboard electromagnetic coils, which serve as actuator for the satellite orientation change in the space. He performs measurements of magnetisation characteristics of chosen materials for the coil cores and some other satellite construction components for the obtaining of information about the magnetic characteristics of the satellite as a whole and its influence on the measurement of the magnetic field in the orbit.

Ing. Kliment Tomáš

Within the project he solves calibration of selected sensors, more specifically of onboard magnetometers, using innovative procedure based on the neural networks. Outputs of these sensors are used for the satellite navigation and stabilisation.

Organisation of Conferences:

MM 2015

Faculty of Aeronautics of the Technical University of Košice was one of the partners of the Slovak Magnetic Society (SMAGS), a member organisation of the ZSVTS that organized on 25th – 28th August 2015 the international scientific conference "Magnetic Measurements 2015". From the DATS for the organisation of the conference Ing. Lipovský and Ing. Draganová, members of SMAGS and of the local organising committees were responsible. The conference was held in Hotel Centrum in Košice. The conference provides an excellent opportunity for scientists and engineers not only from the central Europe to share their ideas and experience in the field of magnetic measurements. At the conference 36 oral presentations and 41 poster presentations were presented. The conference was attended by 91 participants, including 44 foreign participants from Poland, Czech Republic, Hungary, Romania, South Africa, Austria, Belgium, Greece and Mexico.

MOSATT 2015

Faculty of Aeronautics of the Technical University of Košice in co-operation with the Perpetis, Inc. organized the international scientific conference "Modern Safety Technologies in

Transportation 2015". From the DATS for the conference organisation was responsible Ing. Draganová. The conference was held on the 16th – 18th September 2015 in Zlatá Idka. Its goals was to assess the current status of safety in transportation under the new conditions of globalization and extension of the EU and find inspirations in the quest for ways of minimizing safety risks in the various branches of transportation.

Awards

MOSATT 2015

The Best Student Paper Award was presented to Ing. Tomáš Volčko for the paper co-authored with Doc. Moucha and Ing. Kán entitled Wireless Communication Interfaces for Small Unmanned Systems.

SSRA

Tomáš Kliment - internal master's student - won the Students' Scientific and Research Activity (SSRA) 2014/2015 competition in the Avionic and sensoric systems section with the SSRA thesis entitled Application o Magnetometers for "Low-Cost" Compass Systems.

GRADUATE THESES

THESIS TYPE	BACHELOR	MASTER	DOCTORAL
Number	4	8	1

BACHELOR'S THESES

NAME OF STUDENT	NAME OF THESIS
Fagová Dominika	Local Conflicts and Civil Air Traffic
Kovalík Viktor	Analysis of The Mechanical Properties and Uses of Plastics for 3D Printing in Aviation
Milčáková Michaela	Analysis of Safety and Security Risks Influencing from the Utilization of Unmanned Aerial Vehicles in Controlled Airspace
Slivka Kamil	Particularity of Flying in Icing Conditions

MASTER'S THESES

NAME of STUDENT	NAME OF THESIS
Bc. Dluhoš Radoslav	Emergency Elements Used on Board of UAVs
Bc. Chovanec Tomáš	Effect of PVD Coating on the Contact Fatigue of Sintered Material
Bc. Iknáb Stanislav	History and Perspectives of Unmanned Aerial Vehicles Utilization
Bc. Kliment Tomáš	Calibration of 3D Sensors Using Neural Networks
Bc. Lipták Pavol	Design of Altimeter Module for Use on Board of UAV
Bc. Šatek Rastislav	Interactive Program Guide for Computer Aided Design
Bc. Šteč Pavol	Evaluation of Component Survival Probability in Aircraft Operations
Bc. Toporcerová Veronika	Creation of Slovak User Interface for the QtiPlot Software

PhD. THESES

Ing. Čerňan Jozef	Influence of the Selected Surface Treatments on the Contact Fatigue of Sintered Steels
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PUBLICATIONS

Journals

ADC - Scientific Articles in Foreign Current Contents Journals (1)

- HUDÁK, Radovan - VARGA, Rastislav - HUDÁK, Jozef - PRASLIČKA, Dušan - POLÁČEK, Irenej - KLEIN, Peter - EL KAMMOUNI, Rhimou - VÁZQUEZ, Manuel: Influence of Fixation on Magnetic Properties of Glass-Coated Magnetic Microwires for Biomedical Applications. In: IEEE Transactions on Magnetics. Vol. 51, no. 1 (2015), p. 104-104. ISSN 0018-9464.

ADE - Scientific Articles in Foreign Journals (2)

- RODZIŇÁK, Dušan - ČERŇAN, Jozef - ZAHRADNÍČEK, Rudolf: Structural steel at the beginnign of the last century and today. In: Journal of Engineering and Architecture. Vol. 3, no. 1 (2015), p. 169-173. ISSN 2334-2986.
- DRAGANOVÁ, Katarína - LAŠŠÁK, Miroslav: Riadenie komplexného elektro-mechanického systému. In: ElectroScope. Vol. 2015, no. 1 (2015), p. 1-4. ISSN 1802-4564.

ADF - Scientific Articles in Domestic Journals (6)

- OSTROŽNICKÝ, Jozef - HUDÁK, Jozef: Unmanned Systems with Three Rotors. In: Acta Avionica. Roč. 17, 33, č. 3 (2015), s. 21-26. ISSN 1335-9479.
- ŠMELKO, Miroslav - KRAVČÁK, Jozef - PRASLIČKA, Dušan - BLAŽEK, Josef - DRAGANOVÁ, Katarína: Impact of Modified Endings on Noise Characteristics of Fe-Based Glass-Coated Microwires. In: Journal of Electrical Engineering. Roč. 66, č. 7s (2015), s. 30-32. ISSN 1335-3632.
- PRASLIČKA, Dušan - ŠMELKO, Miroslav - LIPOVSKÝ, Pavol - KÁN, Viktor - FLACHBART, Norbert: Offset of Switching Field in Amorphous Fe-Based Microwires. In: Journal of Electrical Engineering. Roč. 66, č. 7s (2015), s. 33-36. ISSN 1335-3632.
- HUDÁK, Jozef - LIPOVSKÝ, Pavol - BAJÚS, Ján - ČVERHA, Andrej - KLEIN, Peter - VARGA, Rastislav - ONUFER, Jozef - ZIMAN, Ján: Fluxgate Sensors Based on Magnetic Microwires for Weak Magnetic Fields Measurement. In: Journal of Electrical Engineering. Roč. 66, č. 7s (2015), s. 153-156. ISSN 1335-3632.
- KLIMENT, Tomáš - PRASLIČKA, Dušan - DRAGANOVÁ, Katarína - BLAŽEK, Josef: Gradient Methodology for 3-Axis Magnetometer Scalar Calibration. In: Journal of Electrical Engineering. Roč. 66, č. 7s (2015), s. 157-160. ISSN 1335-3632.
- PRASLIČKA, Dušan - BLAŽEK, Josef - HUDÁK, Jozef - MIKITA, Ivan - MOUCHA, Václav: Industrial Applications of Magnetometry. In: Journal of Electrical Engineering. Roč. 66, č. 7s (2015), s. 190-192. ISSN 1335-3632.

ADN - Scientific Articles in Domestic Journals registered in the Web of Science or SCOPUS databases (1)

- ČERŇAN, Jozef - RODZIŇÁK, Dušan - SEMRÁD, Karol - TRUCHLÝ, Martin: The tribological properties of the coated sintered material. In: Acta Metallurgica Slovaca. Roč. 21, č. 1 (2015), s. 44-52. ISSN 1335-1532.

Conferences

AFD - Published Articles on Foreign Scientific Conferences (7)

- DRAGANOVÁ, Katarína - LAŠŠÁK, Miroslav - LIPOVSKÝ, Pavol - KÁN, Viktor - KLIMENT, Tomáš: Gradient Methodology for 3-Axis Accelerometer Static Calibration. In: ICMT 2015. Brno : University of Defence, 2015 P. 521-525. ISBN 978-80-7231-976-3.
- LIPOVSKÝ, Pavol - DRAGANOVÁ, Katarína - ŠMELKO, Miroslav - VOLČKO, Tomáš: Vector Magnetometer used as Magnetometric Security Subsystem. In: ICMT 2015. Brno : University of Defence, 2015 P. 527-530. ISBN 978-80-7231-976-3.
- DRAGANOVÁ, Katarína - LAŠŠÁK, Miroslav - LIPOVSKÝ, Pavol: Možnosti zlepšenia šumových parametrov inerciálnych senzorov. In: Měření, diagnostika, spolehlivost palubních soustav letadel 2015. Brno : Univerzita obrany, 2015 P. 51-57. ISBN 978-80-7231-434-8.
- ŠMELKO, Miroslav - PRASLIČKA, Dušan - LIPOVSKÝ, Pavol - KÁN, Viktor: Metóda merania ofsetu spínacieho poľa. In: Měření, diagnostika, spolehlivost palubních soustav letadel 2015. Brno: Univerzita obrany, 2015 P. 219-226. ISBN 978-80-7231-434-8.
- SEMRÁD, Karol - GAŠPAROVIČ, Peter: Statistical data processing for evaluation of component survival probability in aircraft operation. In: Měření, diagnostika, spolehlivost palubních soustav letadel 2015. Brno : Univerzita obrany, 2015 P. 204-210. ISBN 978-80-7231-435-5.
- ANDOGA, Rudolf - DRAGANOVÁ, Katarína - LAŠŠÁK, Miroslav: Engineering approaches in control of complex electro-mechanical systems. In: CINTI 2015. Danvers : IEEE, 2015 P. 71-74. ISBN 978-1-4673-8519-0.
- RATKOVSKÁ, Katarína - ČERŇAN, Jozef - CÚTTOVÁ, Miroslava - SEMRÁD, Karol: The Analyses for the Casing Improvements of the MPM-20 Engine. In: ASME Turbo Expo 2015. Montreal : The American Society of Mechanical Engineers, 2016 P. 1-9. ISBN 978-0-7918-5679-6.

AFD - Published Articles on Domestic Scientific Conferences (10)

- DRAGANOVÁ, Katarína - MOUCHA, Václav - VOLČKO, Tomáš: Attitude-Independent Iterative Static Calibration Methodology for 3-Axis Accelerometers. In: MOSATT 2015. Košice : Perpetis, 2015 S. 39-44. ISBN 978-80-971432-2-0. ISSN 1338-5232.
- VOLČKO, Tomáš - MOUCHA, Václav - KÁN, Viktor: A Wireless Communication Interfaces for Small Unmanned Systems. In: MOSATT 2015. Košice : Perpetis, 2015 S. 200-205. ISBN 978-80-971432-2-0. ISSN 1338-5232.

- SEMRÁD, Karol: Design methodology for repeated load of the fillet welded connections. In: MOSATT 2015. Košice : Perpetis, 2015 S. 172-176. ISBN 978-80-971432-2-0. ISSN 1338-5232.
- PETRÍK, Jozef - BLAŠKO, Peter - ČERŇAN, Jozef: Porovnanie kvality ručných mikrotvrdomerov. In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. Košice : TU, 2015 S. 00-1-00-8. ISBN 978-80-553-2136-3.
- ČERŇAN, Jozef - CÚTTOVÁ, Miroslava - RATKOVSKÁ, Katarína - KOTTFER, Daniel: Inherentný spaľovací motor. In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. Košice : TU, 2015 S. 00-1-00-9. ISBN 978-80-553-2136-3.
- CÚTTOVÁ, Miroslava - ČERŇAN, Jozef - RATKOVSKÁ, Katarína: Sonda pre meranie vybočenia prúdu. In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. Košice : TU, 2015 S. 00-1-00-8. ISBN 978-80-553-2136-3.
- VOLČKO, Tomáš - MOUCHA, Václav: Komunikačná sieť pre malé UAV. In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. Košice : TU, 2015 S. 00-1-00-6. ISBN 978-80-553-2136-3.
- BAJÚS, Ján - KÁN, Viktor: Využitie barometrických snímačov k stabilizácii bezpilotných prostriedkov. In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. Košice : TU, 2015 S. 00-1-00-9. ISBN 978-80-553-2136-3.
- KÁN, Viktor - FLACHBART, Norbert - BAJÚS, Ján - VOLČKO, Tomáš: Kontaktovanie magnetických mikrodrôtov. In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. Košice : TU, 2015 S. 00-1-00-6. ISBN 978-80-553-2136-3.
- KLIMENT, Tomáš - PRASLIČKA, Dušan: Adaptive attitude-independent magnetometer calibration. In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. Košice : TU, 2015 S. 00-1-00-8. ISBN 978-80-553-2136-3.

BEE - Specialized Article in Foreign Unreviewed Proceedings (3)

- ŠMELKO, Miroslav - LIPOVSKÝ, Pavol - DRAGANOVÁ, Katarína: Bezkontaktné meranie mechanického napäťia vnútri kompozitných materiálov. In: Polymerní kompozity 2015. Ostrava : RPIC – ViP, 2015 P. 116-121. ISBN 978-80-905224-2-8.
- LIPOVSKÝ, Pavol - HUDÁK, Jozef - PRASLIČKA, Dušan - BAJÚS, Ján: Senzory s magnetickými mikrodrôtmami pre meranie slabých magnetických polí. In: Měření, diagnostika a spolehlivost palubních soustav letadel 2015. Brno : Univerzita obrany, 2015 P. 125-132. ISBN 978-80-7231-434-8.
- GAŠPAROVIČ, Peter - SEMRÁD, Karol - CÚTTOVÁ, Miroslava: Properties of Broezel static probe. In: Experimental Fluid Mechanics 2015. [Liberec : Petra Dančová and Martin Veselý], 2015 P. 194-197.

Other Publications

BCI – Lecture notes and textbooks (3)

- ZAHRADNÍČEK, Rudolf - SEMRÁD, Karol - DOBÁKOVÁ, Romana - ČERŇAN, Jozef: Materiály a komponenty Študijný modul 6 : Učebné texty podľa predpisu JAR-66. 1. vyd. Košice : TU, 2015. 279 s. [CD-ROM]. ISBN 978-80-553-2019-9.
- SEMRÁD, Karol - ČERŇAN, Jozef: Aplikácia CAX metód v systéme CREO. 1. vyd. Košice : TU, 2015. 125 s. [CD ROM]. ISBN 978-80-553-2167-7.
- HUDÁK, Jozef - LIPOVSKÝ, Pavol - BAJÚS, Ján - KÁN, Viktor - VOLČKO, Tomáš: Senzorické systémy Laboratórne cvičenia. Košice : TU, 2015. 180 s. [CD-ROM]. ISBN 9788055323510.

EAI - Surveillance work – books (1)

- ADAMČÍK, František - DRABIŠČÁK, Jozef - KALAVSKÝ, Peter - KOMOVÁ, Eva - KURDEL, Pavol - VAGNER, Juraj - BÁLINT, Ján - BRÉDA, Róbert - HOCKO, Marián - KIŠ, Slavomír - MISLIVCOVÁ, Viera - POVAŽAN, Jozef - PRASLIČKA, Dušan: 10 rokov Leteckej fakulty Technickej univerzity v Košiciach 2005 – 2015. 1. vyd. Košice : TU, LF, 2015. 256 s. ISBN 978-80-553-2207-0.

FAI - Editorial and Compile Work of the Book Type (bibliographies, encyclopedies, catalogs, proceedings...) (2)

- DRAGANOVÁ, Katarína - KMEC, František: MOSATT 2015 Proceedings of the International Scientific Conference Modern Safety Technologies in Transportation : Volume 6 : 16th - 18th September 2015, Zlatá Idka. 1. vyd. Košice : Perpetis, 2015. 219 s. [CD-ROM]. ISBN 978-80-971432-2-0.
- LIPOVSKÝ, Pavol - MARCIN, Jozef: Magnetic Measurements 2015 International Scientific Conference : Book of Abstracts : Košice, Slovakia, 25th - 28th August 2015. 1. vyd. Košice : TU, 2015. 118 s. ISBN 978-80-553-2177-6.

Certificates

Certificate: Maintenance Training and examination Organization approval CAA of Slovak Republic certificate - Reference: SK.147.0003

DEPARTMENT OF FLIGHT TRAINING

Contact

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Head of Department: doc. Ing. Ján BÁLINT, CSc.
Ing. Róbert ROZENBERG, PhD. (since August 2015)
 E-mail: robert.rozenberg@tuke.sk
 Phone No.: +421 55 602 6162



DEPARTMENT'S PROFILE

The Department of Flight Training (KLP) was established on 01/09/1973 as one of the founding departments of the Military Aviation University of the Slovak National Uprising. After the merge of the Air Force Academy of General Milan Rastislav Štefánik and Technical University in Košice, the Faculty of Aeronautics was established and the department became a part of it. The department provides teaching subjects focusing in particular on the issue of theoretical training of flying personnel, ATC staff, simulation training of flying personnel and air traffic controllers. It also involves teaching students in the theoretical courses of flight training and air traffic control.

Guaranteed university education provided in bachelor's study programs:

- Professional Pilot
- Air Traffic Controller

The Department of Flight Training also:

- carries out the research and development activities particularly in selected areas of training flying personnel, air traffic controllers, aviation safety and air transport control
- participates in the development and improvement of new methods in theoretical and practical training courses of flight preparation.

STAFF

Associate Professors:	doc. Ing. Ján BÁLINT, CSc.
Assistant Professors:	Ing. Matej ANTOŠKO, PhD. PhDr. Anna ČEKANOVÁ, PhD.
	Ing. Stanislav ĎURČO, PhD.
	Ing. Ľubomír FÁBRY, PhD.
	Ing. Peter KAL'AVSKÝ, PhD.
	Ing. Peter KANDRÁČ, PhD.
	Ing. Róbert ROZENBERG, PhD.
	Ing. Jozef SABO, PhD.
	Ing. Juraj VAGNER, PhD., ING-PAED IGIP
Secretary:	Božena CIENIKOVÁ
Technical Staff:	Ing. Ľubomír STANKO
PhD. Students:	Ing. Viktor BALAŠČÍK Ing. Žaneta MIŽENKOVÁ Ing. Miriam SEKELOVÁ

LABORATORIES, SPECIALIZED FACILITIES

To provide courses and research activities, specialized classrooms and laboratories were built at the Department of Flight Training.

- Simulator Laboratory LETVIS for practical training of air traffic controllers
- Laboratory of electrical systems and flight control systems
- Professional pilots on the light single-engine aircraft (Cessna 172)
- Regional Aviation Centre equipped with two modern simulators (Cessna 172 RG, Baron B 58)
- Data Storage Centre and GIS Laboratory for simulation of navigation procedures at different stages of flight, GIS modelling and integrated processing of GNSS measurements
- Language Computer Laboratory for Aviation English training
- Laboratory for Procedural Air Traffic Control Training

TEACHING

Bachelor Study Programme (Bc.)

Subject	Name of Lecturer
Summer semester	
Airports	
Bachelor Thesis	
Airliners	Ing. Róbert Rozenberg, PhD.
Winter semester	
Practical Flight Training Monitoring	
Aviation Communication	

Transport Aircraft	
Summer semester Practical Training in Procedural Control Winter semester Practical Training in Air Traffic Control Aviation Legislative	Ing. Matej Antoško, PhD.
Summer semester Airports Mass and Balance Bachelor Thesis Winter semester Practical Flight Training Performance	doc. Ing. Ján Bálint, CSc.
Summer semester English Language II English Language III English Language IV English Language VI English for Specific Purposes Aviation English Optional Language (Russian language) Winter semester English Language I English Language II English Language III English Language IV Aviation English Optional Language (Russian language)	PhDr. Anna Čekanová, PhD.
Summer semester Air Navigation I Air Navigation II Basic of Cartography Winter semester Aviation Regulations II Operational Procedures Flight Planning and Monitoring	Ing. Stanislav Ďurčo, PhD.
Summer semester Automation in ATC Procedural Air Traffic Control Practical Training in Procedural Air Traffic Control Winter semester Radar Air Traffic Control Practical Training in Air Traffic Control Professional Environment	Ing. Ľubomír Fábry, PhD.
Summer semester Aircraft Weight and Balance Search and Rescue Services Winter semester Aircraft Performance	Ing. Peter Kaľavský, PhD.
Summer semester Aviation Meteorology II Aviation meteorology Air Traffic Management and Safety Winter semester Flight Planning and Monitoring Aviation Meteorology I	Ing. Peter Kandráč ,PhD.
Summer semester Aviation Regulations I Safety Management Systems Winter semester	Ing. Juraj Vagner, PhD., ING-PAED IGIP

Air Traffic Control	
Summer semester Navigation I	
Winter semester Aircraft Performance Flight Planning and Monitoring Operational Procedures Aviation Communication	Ing. Jozef Sabo, PhD.
Summer semester Semester Project	
Winter semester Aviation Legislative	Ing. Viktor Balaščík
Winter semester Airliners	Ing. Žaneta Miženková
Winter semester Aviation Electronic Safety Systems	Ing. Miriam Sekelová

Master Study Programme (Ing.)

Subject	Name of Lecturer
Summer semester Management of Flight Training and Flight Safety Semester Project on Air Transport	doc. Ing. Ján Bálint, CSc.
Summer semester ATC Simulator Training II. ATC Simulator Training IV. Legal Standards in Aviation	Ing. Matej Antoško, PhD.
Winter semester ATC Simulator Training I. ATC Simulator Training III.	
Summer semester English for Specific Purposes I.	PhDr. Anna Čekanová, PhD.
Winter semester English for Specific Purposes I.	
Summer semester Control and Management System for ATC II.	Ing. Ľubomír Fábry, PhD
Winter semester Control and Management System for ATC I.	
Summer semester Air Traffic Management and Flight Safety	Ing. Peter Kandráč ,PhD.
Winter semester Operational Procedures in Air Traffic	
Summer semester Navigation	Ing. Jozef Sabo, PhD.
Summer semester Management and Flight Safety	Ing. Juraj Vagner, ING-PAED IGIP

Doctoral Study Programme (PhD.)

Subject	Name of Lecturer
Summer semester Safety and Quality of Air Traffic	
Winter semester Air Traffic Management	doc. Ing. Ján BÁLINT, CSc.
Summer semester English for Specific Purposes	PhDr. Anna ČEKANOVÁ, PhD.
Winter semester English for Specific Purposes	

RESEARCH PROJECTS

Review of the current state:

The Department of Flight Training currently has three specialized laboratories. It's a simulator laboratory LETVIS for practical training of air traffic controllers and professional pilots on the light single-engine aircraft (Cessna 172). On the simulator LETVIS, a research on human factors in air traffic control environment was conducted. The specific output of this research, a dissertation, has recently been defended. At present the flight simulator is being used for the research collecting psycho-physiological parameters during flying the aircraft with different equipment on board. The output of this research should be a complex study of an analysis of training methods of pilots and the use of flight simulators. At the same time, within this research, the members of the department have written several scientific articles published for scientific conferences and journals.

Under the joint project with the University of Zilina the Brokerage Aviation Centre for Technology Transfer and Expertise in Transport and Transport Infrastructure, the Regional Aviation Centre has been built and equipped with two modern simulators (Cessna 172 RG, Baron B 58). Next, a part of the centre is the data storage with the memory of 80 TB and a laboratory enabling simulation of navigation procedures at different stages of flight, modelling using GIS and integrated processing of GNSS measurements.

DFT staff began working on the project proposal "Virtual simulation room for airspace control". The interconnected network of both these projects would create a unique opportunity to build a local network for virtual flying and air traffic control at the Department of Flight Training.

The local network would then allow:

- Simulated virtual flying in the space of a data model:
 - Flying on ATS routes
 - VFR approach
 - Instrument approach procedures using technical means for navigation
- Simulation of air traffic control in:
 - Control Zone (CTR)
 - Terminal control area (TMA)
 - Control Area (CTA)
- Simulation of air traffic control services in:
 - Area Control Centre (ACC)
 - Approach control (APP)
 - Airport control tower (TWR)
 - Flight information Centre (FIC)
 - ATS reporting offices (ARO)
- Preparing for transitions to the IVAO network

EDUCATION

In the educational field, this virtual network would enable the extension of theoretical training of students in practical training (exercises):

- training of air traffic controllers in the study program of Air Traffic Control,
- training of air traffic dispatchers as the study program Air traffic control extended by the specialization Air traffic dispatcher,
- training of pilots in the extended study program Professional pilot by practical exercises on the use of technical means of navigation and practical exercises in communication,
- exercises in flight training courses as a part of the regular curriculum.

SCIENTIFIC WORK AND RESEARCH

In the area of scientific work and research the virtual network in the department allows:

- research activities in the field of procedure proposals of the safety approach using the advanced satellite navigation systems - GBAS and SBAS,
- testing the potential uses of these practices in terms of flight technical errors FTE and limit values of alert to the loss of integrity IMAL, errors caused by human factors in conjunction with the issue of air traffic control,
- the proposal of operational procedures for crew and air traffic controllers applying procedures using GNSS; modelling of air traffic flow,
- exploring the runway and sector capacity. As a part of these development plans in science and research, we would like to cooperate with other departments of the Faculty of Aeronautics:
 - Department of Air Transport Management - Joint Development Projects, Students' Research Work, Common Scientific Tasks
 - Department of Avionics - Joint Development Projects, Scientific research, Publishing activities
 - Department of Aviation Technical Studies - KEGA project, Publishing activities

CO-OPERATION

Co-operation in the Slovak Republic

- Zilina University, Department of Air Transport: the development project "Brokerage Aviation Centre for Technology Transfer and Expertise in Transport and Transport Infrastructure", joint Doctoral and Habilitation Procedures, publishing activities.
- Transport Authority - Air Navigation Services of Slovak Republic

International Co-operation

- Czech Technical University of Prague, Department of Air Transport: participation at the International Conference, joint Doctoral and Habilitation Procedures.
- Technical University of Ostrava, Department of Air Transport: participation at the International Conference, joint Doctoral and Habilitation Procedures, publishing activities.

Visitors to the Department

- Ing. Ján Breja – Transport Authority
- Ing. Mária Kováčová - ANS of the Slovak Republic
- Ing. Antonio Licu - EUROCONTROL
- Dr. Daniel Schaad - Austrocontrol, Austria
- Ing. Ján Sokol – Air Navigation Services
- Ing. Vojtech Šproch – Air Navigation Services
- Ing. Tibor Štriho – First Officer WizzAir

Visit of Staff Members to Foreign Institution

- Air Force Academy Deblin, Poland - doc. Ing. Ján Bálint, CSc
- Erasmus: Ing. Juraj Vagner, PhD. – ANS of the Czech Republic

Membership in International Organizations and Societies

Council of Universities of SR

- PhDr. Anna Čekanová, PhD. – a vice chairman
- Ing. Juraj Vagner, PhD. – a member

OTHER ACTIVITIES

Patents, certificates

- Certificate of Training Organization CAA of the SR "Basic Training", ATM SK/03

Conferences, Seminars, Workshops

- IV. Scientific Conference of PhD Students 05/14-15 2015
- International Scientific Conference Ostrava - Mošnov 09/18-19 2015

Project for Industry Companies

- The development Project Brokerage Aviation Centre for Technology Transfer and Expertise in Transport and Transport Infrastructure, ITMS code 26220220156
- Package of Elements for Improvement And Innovation of Education, Package 02 ITMS code 26110230070, Package 04 ITMS code 26110230093

GRADUATE THESES

THESIS TYPE	BACHELOR	MASTER	DOCTORAL
Number	28	17	2

BACHELOR'S THESES

NAME OF STUDENT	NAME OF THESIS
BÁLINTOVÁ Lucia	Exposition of the Development in Aviation until 1945 in the Museum of Aviation in Košice
BODNÁROVÁ Michaela	Exposition of Aircraft Designs in the Museum Of Aviation in Košice
CENKNER Gabriel	The possibilities of Measuring Air Traffic Controllers Workload
ČIERNA Angelika	The Flight attendant – a New Study Programme at the Faculty of aeronautics of Technical university
DÉKÁNY Viktor	Certification Possibilities of Simulation Facility LETVIS at the Flight Preparation
FRANKOVÁ Simona	Implementation of the Digital NOTAM Event Specification Standard
HALČIN Martin	Technical Means to Monitor Air Traffic Controller Performance Data
HAŠČÁKOVÁ Nikola	Professional Environment of ATCo
HRUBČO Matej	Flight Performance of Single Engine Aircraft Class B during Climbing
JERGA Oliver	Opportunities for Air Passenger Traffic in Specific Areas With Limited Transport Infrastructure
KARDOŠINEC Tomáš	The Analysis of Selected Air shows in Europe
KOHÚT Ľubomír	The Impact of Aviation on the Environment
KOLŠOVSKÝ Viktor	The Simulation of the Clouds through the Simulated Instrument Approach
KOSTUŠOVÁ Lucia	Exposition of the Development in Aviation from 1945 to the Present in the Museum of Aviation in Košice
LACKO Štefan	Creation of Standard Operational Procedures and Checklists on Flight Simulators
MIKLÓS Oliver	The Exploiting of Time-lapse of Meteorological Phenomena in the Teaching of Aviation
NIKOLOVSKI Goce	The System of Air Traffic Control in the Republic of Macedonia
NIŽNÍK Ondrej	Ergonomics of LETVIS Simulator
OLEXA Peter	The Statistic Forecast of the Turbulence in Mountain Area
ONUŠKA Maroš	Modern Onboard Display Systems
SOPKOVÁ Lucia	Exposition of Aviation Equipment and Instruments in the Museum of Aviation in Košice

SPIŠÁKOVÁ Andrea	Logistic Process of Shipment in Air Transportation
ŠIMČOVÁ Stanislava	Transportation of Dangerous Goods by Air
ŠEPEĽOVÁ Miriamá	Possibilities of Creation Illustrative Teaching Aids
ŠTEFANKO Denis	Electronic Flight Strips
ULIČNÝ Šimon	GPS III – The Next Generation of Satellite Navigation Systems
VRBOVÁ Lucia	Solution of Standard Instrumental Arrival and Departure for Slovak Airfield
ZÁRIK Tomáš	Gallery of Presidential Aircraft in the Museum of Aviation in Košice

MASTER'S THESES

NAME OF STUDENT	NAME OF THESIS
Bc. Bóková Anita	Cooperation Among Low-Cost Airlines
Bc. Britanová Eva	Electronic Database of Narrow-Body Aircraft of the Boeing Company
Bc. Čekanová Daniela	Psychological Aspects Operating on the Air Traffic Controller in Reintegration into Action After the Accident
Bc. Glaser-Opitz Leonard	Means of Using CPDLC with ATC Procedures in Terminal Maneuvering Area
Bc. Homola Libor	Long-Term Solution Proposal and Safety Assessment for London Heathrow Airport Capacity Increase
Bc. Il'kovič Miroslav	Electronic Database of Wide-Body Aircraft of the Boeing Company
Bc. Jalč Patrik	Weather Detection and Avoidance Systems in Aviation – an Analysis and Comparasion of English Articles
Bc. Krišová Lenka	The Air Transportation Process at the LOT Airline Company
Bc. Masaryk Vladimír	Methodology Shark Aircraft Flight Training
Bc. Miženková Žaneta	The Analysis of Tools to Enhance Safety in the Provision of Air Traffic Services
Bc. Pončáková Natália	Optimalization of Operational Costs of Low-Cost Airlines
Bc. Reichstädterová Patrícia	Human Resources and their Management in the Project of Public Air Displays
Bc. Rokonal Michal	The Aeroplane Mass and Balance as Important Factor of the Flight Safety
Bc. Skočej Jakub	Flight Planning in Commercial Air Transport
Bc. Ševčík Miroslav	Airline Marketing Options
Bc. Tomaškovičová Lívia	The Methodology of Air Crash Site Security Outside the Airport by Police
Bc. Tvarovská Mária	Potential Uses of Continues Dečscent Approach in Kosice Airport Approach

DOCTORAL'S THESES

NAME OF STUDENT	NAME OF THESIS
Ing. Piľová Eva,	Criteria of the Pilot Selection and Screening System
Ing. Vagner Juraj, ING-PAED IGIP	Determining the Capacity of Air Traffic Control System at an Airport

PUBLICATIONS

Books, textbooks

ACA – Academic Textbooks Published by Domestic Publishers (1)

- ACA001 [163054] Procedurálne riadenie letovej prevádzky / Ľubomír Fábry, Matej Antoško, Peter Korba, Ostrava : Sdružení požárního a bezpečnostního inženýrství - 2015. - 162 p. ISBN 978-80-7385-160-6. [FÁBRY, Ľubomír - ANTOŠKO, Matej - KORBA, Peter]

Journals

ADE – Scientific Articles in Foreign Journals (1)

- ADE001 [166688] Examination of Egnos Safety-of-life Service in Eastern Slovakia / Adam Ciečko ... [et al.] - 2015.In: Annual of Navigation. Vol. 22, no. 1 (2015), p. 65-78. - ISSN 2300-6633 Spôsob prístupu: http://www.annualofnavigation.pl/annual/Cie%C4%87ko%2C%20Grzegorzewski%20i%20inni_final_1601161740288497.pdf.

ADF - Scientific Articles in Domestic Journals (3)

- ADF001 [158062] Prečo taktické dopravné lietadlá? / Peter Kandráč, Stanislav Szabo - 2015.In: Obrana. Roč. 23, č. 4 (2015), s. 24-25. - ISSN 1336-1910 [KANDRÁČ, Peter - SZABO, Stanislav]
- ADF002 [160913] Vrtuľníky v ozbrojených silách / Peter Kandráč, Stanislav Szabo - 2015.In: Obrana. Roč. 23, č. 8 (2015), s. 22-23. - ISSN 1336-1910 [KANDRÁČ, Peter - SZABO, Stanislav]
- ADF003 [163537] Emergency bail-out from aircraft - Landing with personal rescue parachutes / Peter Kaľavský, Jindřich Gazda, Monika Kimličková - 2015.In: Acta Avionica. Roč. 17, č. 31 (2015), s. 40-46. - ISSN 1335-9479 [KAĽAVSKÝ, Peter - GAZDA, Jindřich - KIMLIČKOVÁ, Monika]

ADM - Scientific Articles in Domestic Journals registered in Web of Science or SCOPUS databases (2)

- ADM001 [163120] Flight Planning with Respect to Meteorological Conditions / Jozef Sabo ... [et al.] - 2015.In: Naše More. Vol. 62, no. 3 (2015), p. 209-214. - ISSN 0469-6255 Spôsob prístupu: <http://www.scopus.com/record/display.url?eid=2-s2.0-84943570423&origin=resultslist&sort=plf-f&src=s&st1=0469-6255&st2=&sid=8188074CD303A9396137233B3F93085A.CnvcAmOODVwpVrjSeqQ%3a10&sot=b&sdt=b&sl=15&s=ISSN%280469-6255%29&relpos=2&relpos=2&citeCnt=0&searchTerm=ISSN%280469-6255%29>. [SABO, Jozef - KORBA, Peter - PIL'A, Ján - HOVANEC, Michal]
- ADM002 [163125] Construction and Safety Aspects of Glass Used in Aviation Transport / Peter Korba ... [et al.] - 2015.In: Naše More. Vol. 62, no. 3 (2015), p. 219-223. - ISSN 0469-6255 Spôsob prístupu: <http://www.scopus.com/record/display.url?eid=2-s2.0-84943526480&origin=resultslist&sort=plf-f&src=s&st1=0469-6255&nlo=&nlr=&nls=&sid=8188074CD303A9396137233B3F93085A.CnvcAmOODVwpVrjSeqQ%3a10&sot=b&sdt=b&sl=15&s=ISSN%280469-6255%29&relpos=25&relpos=5&citeCnt=0&searchTerm=ISSN%280469-6255%29>. [KORBA, Peter - PIL'A, Ján - CIBEREVOVÁ, Jana - SABO, Jozef]

AED - Scientific papers in domestic reviewed scientific proceedings, monographs (1)

- AED001 [165182] Systém hodnotenia zamestnancov v podniku / Edina Pappová, Juraj Vagner - 2015.In: Air Transport 2015 : Zborník príspevkov pri príležitosti Týždňa vedy a techniky : 4. ročník. - Košice : TU, 2015 S. 89-93. - ISBN 978-80-553-2352-7 [PAPPOVÁ, Edina - VAGNER, Juraj]

Other Publication

AFC –Published Articles on Foreign Scientific Conferences(12)

- AFC001 [161705] Nové trendy vo výcviku leteckého personálu / Róbert Rozenberg, Vladimír Begera, Juraj Vagner - 2015.In: Aplikace simulátorů ve výcviku leteckých specialistů. - Ostrava : Lets Fly s.r.o, 2015 P. 142-150. - ISBN 978-80-260-8337-5 [ROZENBERG, Róbert - BEGERA, Vladimír - VAGNER, Juraj]
- AFC002 [161709] The analysis of tools to enhance safety in the provision of air traffic

- services / Žaneta Miženková, Juraj Vagner, Róbert Rozenberg - 2015.In: Aplikace simulátorů ve výcviku leteckých specialistů. - Ostrava : Lets Fly s.r.o, 2015 P. 166-177. - ISBN 978-80-260-8337-5
[MIŽENKOVÁ, Žaneta - VAGNER, Juraj - ROZENBERG, Róbert]
- AFC003 [163131] One runway airport separations / Matej Antoško ... [et al.] - 2015.In: SGEM 2015. - Sofia : STEF92 Technology Ltd., 2015 P. 241-248. - ISBN 978-619-7105-34-6 - ISSN 1314-2704
[ANTOŠKO, Matej - KORBA, Peter - SABO, Jozef - PIL'A, Ján]
 - AFC004 [163135] Ergonomy of ATCO training workplace / Matej Antoško, Peter Korba, Jozef Sabo - 2015.In: SGEM 2015. - Sofia : STEF92 Technology Ltd., 2015 P. 873-880. - ISBN 978-619-7105-41-4
[ANTOŠKO, Matej - KORBA, Peter - SABO, Jozef]
 - AFC005 [163453] The Cost of an Adverse Weather – How to Reckon it Up / P. Kandrac, M. Antosko, P. Korba - 2015.In: Transport Means 2015. - Kaunas : Kaunas University of Technology, 2015 P. 439-443. - ISSN 1822-296X
[KANDRÁČ, Peter - ANTOŠKO, Matej - KORBA, Peter]
 - AFC006 [163454] Flight Planning and its Impact on the Environment / Jozef Sabo ... [et al.] - 2015.In: Transport Means 2015. - Kaunas : Kaunas University of Technology, 2015 P. 632-636. - ISSN 1822-296X
[SABO, Jozef - SABOVÁ, Janka - KORBA, Peter - ČEKAN, Peter]
 - AFC007 [163703] A Flexible Use of Slovak Airspace / Juraj Vagner, Róbert Rozenberg, Lucia Melníková - 2015.In: Aeronautica 15 : Proceedings of the International conference. - Lublin : Lublin University of Technology, 2015 P. 134-143. - ISBN 978-83-7947-149-2
[VAGNER, Juraj - ROZENBERG, Róbert - MELNÍKOVÁ, Lucia]
 - AFC008 [163708] Low-cost Airlines Optimization of Operating Expenses / Róbert Rozenberg ... [et al.] - 2015.In: Aeronautica15 : Proceedings of the International conference. - Lublin : Lublin University of Technology, 2015 P. 152-158. - ISBN 978-83-7947-149-2
[ROZENBERG, Róbert - VAGNER, Juraj - KALAVSKÝ, Peter - ENDRIZALOVÁ, Eva]
 - AFC009 [163792] Conditions for abandonment out of a helicopter using personal rescue parachute / Peter Kaľavský ... [et al.] - 2015.In: ICMT 2015. - Brno : University of Defence, 2015 P. 467-471. - ISBN 978-80-7231-976-3
[KALAVSKÝ, Peter - SOCHA, Vladimír - SOCHA, Luboš - KUTÍLEK, Patrik - GAZDA, Jindřich - KIMLIČKOVÁ, Monika]
 - AFC010 [164208] Planetary Conditions of Mars and Their Influence on Orbital Technologies / Jozef Kozár, Stanislav Ďurčo - 2015.In: Aeronautica 15. - Lublin : Lublin University of Technology, 2015 P. 49-53. - ISBN 978-83-7947-149-2
[KOZÁR, Jozef - ĎURČO, Stanislav]
 - AFC011 [165782] Airline Marketing Options / Juraj Vagner ... [et al.] - 2015.In: MMK 2015. - Hradec Králové :Magnanimitas, 2015 P. 389-394. - ISBN 978-80-87952-12-2
[VAGNER, Juraj - PAPPOVÁ, Edina - SEKELOVÁ, Miriam - MIŽENKOVÁ, Žaneta]
 - AFC012 [169338] Assessment of mental workload in pilots using traditional heart rate evaluation methods and recurrence quantification analysis / A. Hakova ... [et al.] - 2015.In: Instruments and methods for biology and medicine 2015. - Prague : CTU, 2015 P. 15-19. - ISBN 978-80-01-05851-0
[HAKOVA, A. - SOCHA, Vladimír - HANAKOVA, L. - SOCHA, Luboš - SCHLENKER, J. - KALAVSKÝ, Peter - KUTILEK, P.]

AFD - Published Articles on Domestic Scientific Conferences (9)

- AFD001 [161570] Effect of the change of flight, navigation and motor data visualization on psychophysiological state of pilots / Vladimír Socha ... [et al.] - 2015.In: SAMI 2015. - Danvers : IEEE, 2015 S. 339-344. - ISBN 978-1-4799-8220-2
[SOCHA, Vladimír - SCHLENKER, Jakub - KALAVSKÝ, Peter - KUTÍLEK, Patrik - SOCHA, Luboš - SZABO, Stanislav - SMRČKA, Pavel]

- AFD002 [163055] Umiestňovanie technických zariadení pre sledovanie letovej prevádzky / Matej Antoško, Ľubomír Fábry, Jana Cibereová - 2015.In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. - Košice : TU, 2015 S. 00-1-00-12. - ISBN 978-80-553-2136-3
[ANTOŠKO, Matej - FÁBRY, Ľubomír - CIBEREOVÁ, Jana]
- AFD003 [163056] Letecká legislatíva pre lietanie na rogalách a paragliding / Ľubomír Fábry, Matej Antoško, Jana Cibereová - 2015.In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. - Košice : TU, 2015 S. 00-1-00-6. - ISBN 978-80-553-2136-3
[FÁBRY, Ľubomír - ANTOŠKO, Matej - CIBEREOVÁ, Jana]
- AFD004 [163059] Matematické výpočty zostupu lietadiel pri degradácii automatizovaných systémov / Ľubomír Fábry, Matej Antoško, Jana Cibereová - 2015.In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. - Košice : TU, 2015 S. 00-1-00-5. - ISBN 978-80-553-2136-3
[FÁBRY, Ľubomír - ANTOŠKO, Matej - CIBEREOVÁ, Jana]
- AFD005 [163144] Inovatívne prístupy pri tvorbe e-learningu / Jana Cibereová, Peter Korba, Jozef Sabo - 2015.In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. - Košice : TU, 2015 S. 00-1-00-7. - ISBN 978-80-553-2136-3
[CIBEREOVÁ, Jana - KORBA, Peter - SABO, Jozef]
- AFD006 [163146] Softvér NX ako nástroj zvyšovania konkurencie schopnosti / Peter Korba, Jana Cibereová, Jozef Sabo - 2015.In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. - Košice : TU, 2015 S. 00-1-00-6. - ISBN 978-80-553-2136-3
[KORBA, Peter - CIBEREOVÁ, Jana - SABO, Jozef]
- AFD007 [163147] Výber leteckej techniky pre lety na dlhé vzdialenosť / Jozef Sabo, Jana Cibereová, Peter Korba - 2015.In: Zborník príspevkov 4. Medzinárodnej konferencie doktorandov a mladých vedeckých pracovníkov. - Košice : TU, 2015 S. 00-1-00-7. - ISBN 978-80-553-2136-3
[SABO, Jozef - CIBEREOVÁ, Jana - KORBA, Peter]
- AFD008 [163152] Využívanie CAx systému pri projektovaní letiskových prevádzkových plôch / Peter Korba, Jana Cibereová, Eva Piľová - 2015.In: Bezpečnosť - Kvalita - Spoľahlivosť. - Košice : TU, 2015 S. 105-109. - ISBN 978-80-553-2044-1
[KORBA, Peter - CIBEREOVÁ, Jana - PIĽOVÁ, Eva]
- AFD009 [163156] Ergonómia pilotného priestoru / Eva Piľová, Jana Cibereová - 2015.In: Bezpečnosť - Kvalita - Spoľahlivosť. - Košice : TU, 2015 S. 199-203. - ISBN 978-80-553-2044-1
[PIĽOVÁ, Eva - CIBEREOVÁ, Jana]

AFH - Abstracts of Articles from Domestic Conferences (1)

- AFH001 [164678] Using Synthetic Training Devices in The Study Program Professional Pilot / Stanislav Ďurčo, Juraj Vagner - 2015.In: Geo Spatial Visions : zborník z vedeckej konferencie : 8. - 9.9.2015, Horský hotel Šachticke. - Žilina :Žilinská univerzita v Žiline v EDIS, 2015 S. 27-28. - ISBN 978-80-554-1113-2
[ĎURČO, Stanislav - VAGNER, Juraj]

BDE – Specialized Articles in Foreign Unreviewed Journals (1)

- BDE001 [162955] Wpływ chemicznych środków odladzających na nawierzchnie pasów startowych / Ján Ferenc ... [et al.] - 2015.In: Autostrady. No. 6 (2015), p. 33-37. - ISSN 1730-0703
[FERENC, Ján - PIĽOVÁ, Eva - FERENCOVÁ, Jana - PERUN, Grzegorz]

BDF - Specialized Articles in Domestic Unreviewed Journals (3)

- BDF001 [154845] Problematika reintegrácie slovenských výskumníkov / Ján Bálint, Michal Žarnay, Peter Kandráč - 2015.In: Aero-Journal. Č. 1 (2015), s. 4-8. - ISSN 1338-8215 [BÁLINT, Ján - ŽARNAY, Michal - KANDRÁČ, Peter]
- BDF002 [165991] Possibilities of Using the Approach with Continuous Descent Approach Procedures at the Airport Kosice AIRPORT KOŠICE / Mária Tvarovská, Stanislav Ďurčo - 2015.In: Acta Avionica. Roč. 17, č. 2 (2015), s. 1-5. - ISSN 1339-9853 [TVAROVSKÁ, Mária - ĎURČO, Stanislav]
- BDF003 [165992] Methodology Shark Aircraft Flight Training / Vladimír Masaryk, Stanislav Ďurčo - 2015.In: ActaAvionica. Roč. 17, č. 2 (2015), s. 1-5. - ISSN 1339-9853 [MASARYK, Vladimír - ĎURČO, Stanislav]

Department Offers

- Aviation English language – 2 week courses (January or June) – Standardized phraseology and basic aircraft technical terminology
- Aviation Russian language– 2 week course (February) – Radiotelephony phraseology and basic aircraft terminology
- Enjoyment of Air Traffic Control
- Enjoyment of Flying the Flight Simulators

DEPARTMENT OF AIR TRANSPORT MANAGEMENT

Contact

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Head of Department: doc. Ing. Slavomír KIŠ, CSc.
Ing. Peter KOŠČÁK, PhD. (since August 2015)
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 Phone No.: +421556026186



DEPARTMENT'S PROFILE

The Department of Air Traffic Management (KMLP) was established on 01/09/2004, as one of the scientific and educational institutions after merging the Institute of Aeronautics of the Air Force Academy of General M.R. Stefanik with the Technical University of Kosice under the Law №455/2004 and Act №131/2002 on University Education. After completion of the transformation process on 01/02/2005 the Faculty of Aeronautics became part of TUKE. The department personnel has years of experience in training civilian and military aviation specialists, pilots and other members of the Air Force in air transport management. The Department of Air Transport management was transformed from the Department of Combat and Operational Use in Air Force - its predecessor, which was a part of the Air Force Academy in Kosice.

Guarantees provided university education in:

- Bachelor program in Air Transport Management
- Engineering study program in Air Transport Management
- Doctoral program in Air Transport Management

It carries out research and development activities in selected issues of air transport management with emphasis on:

- Management and Marketing of Airlines
- Economic Problems of Airlines
- Problems of Organizing Activities at Airports
- Economic Issues of Airport Operations

It is divided into the following components:

- Department of Aviation Management
- Department of Aviation and Airport Safety

STAFF

Professors:

- prof. Ing. Milan Džunda, CSc.
- prof. Ing. Pavel Puliš, CSc.

Associate Professors:

- doc. Ing. Soňa Hurná, CSc.
- doc. Ing. Slavomír Kiš, CSc.
- doc. RSDr. Ján Poprenda, CSc.
- Dr. h. c. doc. Ing. Stanislav Szabo, PhD., MBA

Assistant Professors:

- Ing. Ján Bačík, CSc.
- Ing. Vladimír Begera, PhD.
- Mgr. Peter Čekan, PhD.
- Ing. Ján Ferenc, PhD.
- Ing. Robert Klír, PhD.
- Ing. Ján Kolesár, PhD.
- Ing. Lucia Melníková, PhD.
- Ing. Edina Pappová, PhD.
- Ing. Róbert Rozenberg, PhD. (until July 2015)
- Ing. Ľuboš Socha, PhD.
- Ing. Alica Tobisová, PhD.
- Ing. Pavol Bajusz

Technical Staff:

- Vojtech Rajnec
- Helena Timková

PhD. Students (Internal):

- Ing. Patrik Buk
- Ing. Jana Cibereová
- Ing. Natália Kotianová

- Ing. Dorota Liptáková
- Ing. Edina Pappová
- Ing. Iveta Šebeščáková

LABORATORIES, SPECIALIZED FACILITY

The department built general and specialized classrooms to ensure the teaching and scientific activities. In different subjects multimedia technology is used including multimedia software modules for computer-aided instruction and video. At the Department, the number of computer technology is available for the production of multimedia programs and didactic presentation technology.

TEACHING

Undergraduate Study (Bc.)

Subject	Name of Lecturer
Airport Ecology	prof. Ing. Pavel PULIŠ, CSc.
Air Transport Security	Ing. Ján KOLESÁR, PhD.
Basics of Air Transport	doc. Ing. Slavomír KIŠ, CSc.
Air Transport Process	Ing. Vladimír BEGERA, PhD.
Aircraft Ground Handling Equipment	Ing. Peter KOŠČÁK, PhD.
Airports Maintenance	Ing. Ján KOLESÁR, PhD.
Airport Security	Ing. Ján FERENC, PhD.
General Economic Theory	doc. Ing. Soňa HURNÁ, CSc.
General Principles of Law	Mgr. Peter ČEKAN, PhD.
Economics of Air Transport	Ing. Alica TOBISOVÁ, PhD.
Human factors in Aviation	doc. RSDr. Ján POPRENDÁ, CSc.
Basics of Management and Entrepreneurship	Ing. Pavol BAJUSZ, Mgr. Peter ČEKAN, PhD.
Sociology	Mgr. Peter ČEKAN, PhD.
Organization of Air Transport	Ing. Vladimír BEGERA, PhD.
Management	Mgr. Peter ČEKAN, PhD.
Air Law	Ing. Róbert KLÍR, PhD.
Accounting and Finance	Ing. Alica TOBISOVÁ, PhD.
Principles of Marketing	Dr.h.c. doc. Ing. Stanislav SZABO, PhD. MBA
Airports	Ing. Vladimír BEGERA, PhD.
Transport Aircraft	Ing. Róbert ROZENBERG, PhD.
Airlines	Ing. Róbert ROZENBERG, PhD.
Aeronautical Ground Information Systems	prof. Ing. Milan DŽUNDA, CSc.
Psychological Aspects of Managerial Work	doc. RSDr. Ján POPRENDÁ, CSc.
Airports and Airport Operational Services	Ing. Peter KOŠČÁK, PhD.
Final Thesis	prof. Ing. Milan DŽUNDA, CSc.

Graduate Study (Ing.)

Subject	Name of Lecturer
Operational and System Analysis	Ing. Edina PAPPOVÁ, PhD.
Economy of Airport Operation	doc. Ing. Soňa HURNÁ, CSc.
Airline Logistics	Ing. Ján FERENC, PhD.
Airport Management	doc. Ing. Slavomír KIŠ, CSc.
Airline Management	doc. Ing. Slavomír KIŠ, CSc.
Economy of Airline	doc. Ing. Soňa HURNÁ, CSc.
Human Resource Management	Ing. Róbert KLÍR, PhD.
Basics of Law	Mgr. Peter ČEKAN, PhD.
Quality Management	Ing. Luboš SOCHA, PhD.

Project Management	Ing. Lucia MELNÍKOVÁ, PhD.
Marketing of Air Transport	doc. Ing. Slavomír KIŠ, CSc.
Semester Project of Air Transport Economy	doc. Ing. Soňa HURNÁ, CSc.
Semester Project of Air Transport II	Dr.h.c. doc. Ing. Stanislav SZABO, PhD. MBA
Crisis Management in Aviation	Ing. Róbert KLÍR, PhD.
Operational reliability of Ground Handling Equipment	Ing. Ján FERENC, PhD.
Managerial Ethics	Dr.h.c. doc. Ing. Stanislav SZABO, PhD., MBA
Controlling	Dr.h.c doc. Ing. Stanislav SZABO, PhD. MBA
Managerial Communication	Ing. Lucia MELNÍKOVÁ, PhD.
Ecology and Environment	Ing. Ján Ferenc, PhD.
Entrepreneurship in Aviation and Quality Management	Ing. Ľuboš SOCHA, PhD.
Master's Thesis	prof. Ing. Milan DŽUNDA, CSc.

Postgraduate Study (PhD.) - Recommended Study Plan

Subject	C; CO; O
Professional English	C
Dissertation Project I, II, III	C
Dissertation Thesis	C
Individual and Team Scientific Work	C
Selected Topics in Mathematics	CO
Theory of Transport Systems	CO
Scientific Work and Experiment	CO
Economics of Air Transport	CO
Mathematical and Computer Simulation	CO
Aeronautical Communications Systems	CO
Air Navigation Systems	CO
Aeronautical Tracking Systems	CO
Air Traffic Management	CO
Aviation operations	CO
Operational Aspects of Airports	CO
Economy of Air Company	CO
Safety and Quality of Air Transport	CO
Crisis Management in Aviation	CO
Quality Management in Aviation	CO
Marketing in Aviation	CO
Logistics of Air Transport	CO
Information Systems in Aviation	CO
Protection of Airports	CO

C - Compulsory Subject; CO - Compulsory Optional Subject; V - Optional Subject

RESEARCH PROJECTS

Operational Programme EDUCATION - Package of Innovative Features to Improve Learning and Innovation at TUKE

Aim of the project: Adaptation of University Education to the Needs of the Knowledge Society; Innovation of Bc., Eng. and PhD. study programs of Air Transport Management

Framework activity: Preparation of New Course Materials and their Implementation in Practice and Introduction of New Methods into Curricula so that they become attractive and interesting for young people

Project Manager: doc. Ing. Slavomír Kiš, CSc.

Investigators:

- doc. Ing. Slavomír Kiš, CSc.
- prof. Ing. Milan Džunda, CSc
- doc. Ing. Stanislav Szabo, PhD., MBA
- doc. RSDr. Ján Poprenda, CSc.
- Ing. Ján Bačík, CSc.
- Ing. Vladimír Begera, PhD.
- Ing. Alica Tobisová, PhD.
- Ing. Robert Klír, PhD.
- Ing. Róbert Rozenberg
- Ing. Ľuboš Socha, PhD.
- Mgr. Peter Čekan, PhD.

Timeframe of the project: March 2013 - April 2015

Operational Programme EDUCATION - Package of Supplements for Further Reform of Education at TUKE

Investigators:

- prof. Ing. Milan Džunda, CSc.
- doc. RSDr. Ján Poprenda, CSc.
- Ing. Ján Bačík, CSc.
- Ing. Vladimír Begera, PhD.
- Ing. Robert Klír, PhD.

Timeframe of the project: March 2013 - April 2015

CO-OPERATION

Co-operation in the Slovak Republic

- Airport Košice

International Co-operation

- Czech Technical University in Prague, Faculty of Transportation Sciences, Department of Air Transport
- Brno University of Technology
- Państwowa Wyższa Szkoła Zawodowa w Chełmie

Contracts

Erazmus:

- doc. Ing. Soňa Hurná, CSc. - Państwowa Wyższa Szkoła Zawodowa w Chełmie, Poland, 8. 9. 2015 - 11. 9. 2015
- Ing. Ľuboš Socha, PhD. - ČVUT Praha – 22.11. – 26.11.2015

OTHER ACTIVITIES

Conferences, Seminars, Workshops

Co-organisation of the III Scientific Conference of Doctoral Students (14. – 15.05.2015)

Organising Committee: Ing. Patrik Buk, Ing. Jana Cibereová, Ing. Dorota Liptáková

Scientific Committee: prof. Ing. Milan Džunda, PhD., doc. Ing. Slavomír Kiš, CSc., doc. RSDr. Ján Poprenda, CSc., doc. Ing. Stanislav Szabó, PhD., MBA, doc. Ing. Soňa Hurná, CSc.

GRADUATE THESES

THESIS TYPE	BACHELOR	MASTER	DOCTORAL
Number	67	59	4

BACHELOR'S THESES

NAME OF STUDENT	NAME OF THESIS
Antol Matej	Psychological training for aviation personnel
Babicová Simona	Level of Service of Ryanair
Balintová Lucia	Exposition of the development in aviation until 1945 in the Museum of Aviation Košice
Baloghová Lucia	Assessment of Development Charges and Prices of Airports in Slovakia
Becková Petra	Analysis of the impact of a new line introduction of a carrier to competing airports
Beňo Michal	Proposal of Digital Radio Network for Ground Operations Control at Košice Airport
Bodnárová Michaela	Exposition of aircraft designs in the Museum of Aviation Košice
Boldiová Veronika	Legal Aspects of Air Accidents
Bozogáň Matúš	The Impact of Air Transport Irregularities on Airlines
Brincko Rastislav	International Legislative Standards Issued by the European Union in the Field of Air Transportation
Bukovinská Jarmila	Marketing mix of the selected company
Hajdu Patrik	The manager's role in raising employees motivation in the organization
Hanulová Zuzana	Economic aspects of the use of aviation in travel agencies
Horváthová Eva	Aircraft Manufacturing Companies in Europe
Hovaňáková Miroslava	Helicopter emergency medical service in Central Europe
Hudáková Diana	Unemployment as a result of globalization
Chovancová Katarína	Economic analysis and comparison of two selected airports
Jambor Lukáš	Category management
Jankopálová Lucia	Screening Its Significance and Possibilities
Jarota Peter	Recognition of transport aircraft families Falcon
Kačmárová Radka	Comparing Aviation Act Slovak Republic with Legislative Standards in Aviation Before the Establishment of the Slovak Republic
Kačmárová Stanislava	Issues of Ethical Behavior Staff of the Security Control of the Airport
Karabáš Lukáš	New trends in development of aeronautical guidance systems and equipments
Királyová Monika	Entrepreneurial approaches as preconditions of company economics
Kmecová Ivana	Manufacturing process of company
Kolláriková Františka	Financial and economic analysis of company
Korčaková Katarína	Successful management Time - Management as a way of stress relief for managers
Kostráb Karol	Performance tests and their contribution to staff recruitment
Kostušová Ivana	Exposition of the development in aviation from 1945 to the present in the Museum of Aviation Košice
Kovács Csaba	Aviation work using UAVs

Kozma Richard	Possibility of eliminating the stress of the work environment for pilot
Krempaská Simona	The role of a manager in the process of achieving organizational goals
Luterančík Erik	Possibility of eliminating communication barriers in managerial communications
Majorská Hana	Evaluation of the Use of Kosice Airport in Connection with the Arrival of Low-cost Airline Wizz Air
Marková Lucia	The Use of Internet Marketing in Aviation
Melasová Gabriela	Performance Indicators of Airlines such as Air Berlin Austrian Airlines and LOT Polish Airlines
Migaš René	Forms of Digital Marketing in Company Management
Mikula Patrik	Models of Human Factors Evaluation in Aviation
Mikulová Antónia	The impact of advertising on buying behavior of the customer
Milistenferová Ema	Air of Freedom Their Distribution and Importance of Civil Aviation
Mosorjaková Stela	Competition of traditional and low cost airlines
Nováková Nikola	Recognition of transport aircraft of the Russian Federation
Novotný Filip	Marketing of a selected company
Novotný Matúš	International Conferences of Civil Aviation Following the Year of 1945
Ondová Ľudmila	Assessment of employee satisfaction in the company
Ovadová Jana	Lack of rest and its effect on pilot performance
Ovčáčková Beáta	The Concept of Airports with the Limited Way of Air Traffic Operation
Papáková Lenka	Comparison of economic indicators of units in the company
Parkanský Roland	Comparative effectiveness of budget items two selected airlines
Regec Jozef	Recognition of transport aircraft company Antonov
Sciranková Lenka	Unemployment as a stress factor
Sidor Radomír	Extension of business activities of company
Smoňáková Ivana	Current Trends in Marketing of Airlines
Sopková Lucia	Exposition of aviation equipment and instruments in the Museum of Aviation Kosice
Sošková Martina	The Use of Advertising Campaigns of Airports
Spišáková Andrea	Logistics process of shipments in Air Transportation
Šebest Jaroslav	Protection of Civil Aviation Against Acts of Unlawful Interference
Šerešová Monika	Air Traffic Management at Airports
Šimčová Stanislava	Transportation of dangerous goods by air
Švígár Vladimír	Effectiveness of Advertising Campaigns of Airlines
Tomková Veronika	Draft communication courses for managers
Vargová Bianka	Delivery terms as factors of company success
Vargová Gabriela	Principles of managing receivables and liabilities for company profitability
Vargová Ivana	Safety of airport operations
Weiss Tomáš	Recognition of transport aircraft company Embraer
Zárik Tomáš	Gallery of presidential aircraft in the Museum of Aviation Kosice
Zichová Barbora	European master plan driving the modernisation of Europe's Air Traffic Management (ATM) system

MASTER'S THESES

NAME OF STUDENT	NAME OF THESIS
Andrejčák Milan	Proposal of Reporting System for Safety Management System at Kosice Airport
Andrejčáková Jakubová Silvia	Proposal of Complex Information System for Ground Operations Control at Kosice Airport
Babuljak Matej	Radio navigation systems for precision approach to landing at the airport Sliač
Beňová Mária	Promotion as the marketing tools in the company
Bocák Patrik	Competition for the contemporary market for regional aircraft

Bóková Anita	Cooperation among Low-cost Airlines
Bondar Maryna	Risk Analysis of Acts of Unlawful Interference at an Airport
Bondaruk Anastasiia	Technological development of aviation and its effect on air transport
Božíková Dorota	Analysis of the aircraft accident type B 737 and A320
Bratrú Andrea	Business plan for a selected company
Britanová Eva	Electronic database of narrow-body aircraft of the Boeing Company
Bubelíny Tomáš	Personal management of a selected airport
Dlabaj Slavomír	Characteristics of random processes and phenomena in handling of aircraft passengers and baggage at an airport
Dlugošová Lucia	The safety of the aircraft ground handling equipment pressure and gas
Drotárová Dominika	Possibility of eliminating procrastination by managers
Holečková Ivana	Using of Unmanned Aerial Vehicles in Crisis Management
Hreňová Lucia	Draft of a Marketing Plan for Specific Airport (Airline)
Hrušková Zuzana	Multilevel marketing as a form of business
Hudáková Bibiána	Aerodrome certification for sports purposes
Chripko Gabriel	Cognitive Processes and their Importance for Flying Personnel
Chudá Táňa	Precision approach of landing using satellite navigation systems at the airport Košice
Il'kovič Miroslav	Electronic database of wide-body aircraft of the Boeing Company
Jarkovská Lucia	Possibilities of effective maintenance of asphalt aerodrome manoeuvring areas
Juríček Pavel	Emergency parachute equipment in general aviation
Kasardová Michaela	Mobbing in the Aeronautical Company
Kocurek Vladimír	The Scope of the Slovak Trade Inspection in Exercising Supervision of the European Parliament and the EU Council in Aviation
Kočišová Mária	Corporate incentive system
Kopča Miroslav	Air Company Investment Strategies
Korének Peter	Air visual search
Kováčová Dana	System Management Airlines and Their Impact on Traditional Airlines
Kozub Vladimír	Airport safety and security management in Slovakia
Krišová Lenka	The air transportation process at the LOT airline company
Kucháriková Soňa	Conversion of passenger aircraft for military purposes
Lelkeš Erika	Maintenance of the airport and its impact on the safety of airport operations
Maďoran Michal	Problems with Entry of Airlines to Airport Košice and Their Possible Solutions
Mihok Martin	Economic aspects of operation of aviation electronic support systems
Mihok Peter	Special airport fire trucks
Molek Anton	Company crisis management
Molnárová Kitti	STOLPORTs and their using in the terms of Slovak republic
Nazarejová Anna	Time-Management manager chosen airline
Nehilová Lucia	Security Models for Technical Aircraft Maintenance Personnel and Their Applicability in Practice
Ondočková Gabriela	Marketing tool mystery shopping and it's use in air transport
Orgovánová Jana	Actions and Methods During Threat at an Airport
Oslovičová Edita	Complex approach to the management of an aviation company economics
Peszekiová Alexandra	Requirements for airports obstacle limitation
Polyácsko Róbert	Processing and protection of personal data at airport
Pončáková Natália	Optimization of operational costs of low-cost airlines

Potomová Michaela	Attributes of long-term survival in the market
Pristášová Petra	Promotion of higher education organizations as a tool of building a positive image
Rudasová Viktoria	Energy safety at the airport
Rus Štefan	Effective Planning and Airline Network Control
Sabovčík Marek	Prospects for the Development of Private Aviation in Europe
Sekeráková Zuzana	Possibility of introducing air links between Switzerland and the Slovak Republic
Slezáková Zuzana	Comparison of output and economic aspects of company Boeing and Aribus
Šoltisová Slavomíra	Safety on the ramp
Tomiček Marek	Precision approach of landing using satellite navigation systems at the airport Sliač
Vitáková Veronika	Comparison of marketing tools in the selected companies of air transport
Zozulia Margaryta	Fighting Against Terrorism in Air Transportation
Žák Jozef	Evaluation of the Shopping Behavior of Customers at the Airport Košice

PhD. THESES

NAME OF STUDENT	NAME OF THESIS
Pappová Edina	Prognosis of the Development of Aviation Companies
Iľaščíkova Lucia	The safety and effectiveness of the operation of flying service robots
Džuba Miroslav	Personnel strategy of an aviation company in the times of economic crisis
Socha Ľuboš	Increasing the Performance of Air Specialists

PUBLICATIONS

Books, textbooks

- ACB001 [161805] Civilné dopravné lietadlá 2 / Róbert Rozenberg, Stanislav Szabo - 1. vyd - Košice : Multiprint - 2015. - 163 s.. - ISBN 978-80-89551-21-7.
[ROZENBERG, Róbert - SZABO, Stanislav]
- ACB002 [163785] Manažérstvo kvality / Vladimír Socha ... [et al.] - 1. vyd - Košice : Rotaprint - 2015. - 277 s.. - ISBN 978-80-971877-1-2.
[SOCHA, Vladimír - SOCHA, Luboš - SZABO, Stanislav - SOUŠEK, Radovan]

Journals

- ADE001 [162948] Quality in Air transport process of LOT Polish Airlines / Róbert Rozenberg, Daniela Heralová - 2015.In: MAD - Magazine of Aviation Development. No. 16 (2015), p. 20-24. - ISSN 1805-7578
[ROZENBERG, Róbert - HERALOVÁ, Daniela]
- ADE002 [166688] Examination of Egnos Safety-of-live Service in Eastern Slovakia / Adam Ciećko ... [et al.] - 2015.In: Annual of Navigation. Vol. 22, no. 1 (2015), p. 65-78. - ISSN 2300-6633
prístupu:
http://www.annualofnavigation.pl/annual/Cie%C4%87ko%2C%20Grzegorzecki%20i%20inni_fina_I_1601161740288497.pdf.
[CIEĆKO, Adam - GRZEGORZEWSKI, Marek - OSZCZAK, Stanislaw - ĆWIKLAK, Janusz - GRUNWALD, Grzegorz - BÁLINT, Ján - SZABO, Stanislav]
- ADE003 [166924] Corporate Culture, System of Environmental Management / Vladimír Socha ...

- [et al.] - 2015.In: Acta Scientifica Academiae Ostroviensis: SECTIO A - Nauki Humanistyczne, Spoloczne i Techniczne. Vol. 5, no. 1 (2015), p. 218-238. - ISSN 2300-1739
- [SOCHA, Vladimír - SOCHA, Luboš - VAJDOVÁ, Iveta - GAZDA, Jindřich]
- ADE004 [166938] Classified Information in the Media Spotlight and Trust in the State / Pavol Vitko, Stanislav Szabo - 2015.In: Acta Scientifica Academiae Ostroviensis: Sectio A - Nauki humanistyczne, spoleczne i techniczne. Vol. 6, no. 2 (2015), p. 123-138. - ISSN 2300-1739
- [VITKO, Pavol - SZABO, Stanislav]
- ADE005 [167739] Determinants of Supplier Selection in E-procurement Tenders / Stanislav Szabo - 2015.In: Journal of Applied Economic Sciences. Vol. 10, no. 7(37) (2015), p. 1153-1159. - ISSN 2393-5162
- [SZABO, Stanislav]
- ADF001 [158062] Prečo taktické dopravné lietadlá? / Peter Kandráč, Stanislav Szabo - 2015.In: Obrana. Roč. 23, č. 4 (2015), s. 24-25. - ISSN 1336-1910
- [KANDRÁČ, Peter - SZABO, Stanislav]
- ADF002 [158940] Inventory management of an economic entity - selected aspects / Andrzej Limański, Bożena Sowa, Stanislav Szabo - 2015.In: eXclusive e-JOURNAL. Č. 2 (2015), s. 1-19. - ISSN 1339 - 4509 Spôsob prístupu: <http://exclusiveejournal.sk/2-2015/inventory-management.pdf>.
- [LIMAŃSKI, Andrzej - SOWA, Bożena - SZABO, Stanislav]
- ADF003 [160913] Vrtuňníky v ozbrojených silách / Peter Kandráč, Stanislav Szabo - 2015.In: Obrana. Roč. 23, č. 8 (2015), s. 22-23. - ISSN 1336-1910
- [KANDRÁČ, Peter - SZABO, Stanislav]
- ADF004 [161603] Aviation Technology Life Cycle Stages / Stanislav Szabo, Ivan Koblen, Iveta Vajdová - 2015.In: eXclusive e-Journal. Č. 3 (2015), s. 1-8. - ISSN 1339-4509 Spôsob prístupu: <http://exclusiveejournal.sk/files/files/95/84/32/9782c4f89f1d46afaec59202fd133c98/9782c4f89f1d46afaec59202fd133c98.pdf>.
- [SZABO, Stanislav - KOBLEN, Ivan - VAJDOVÁ, Iveta]
- ADF005 [162881] Requirements on the Airy radiation, chemical and biological reconnaissance / Štefan Bova, Pavel Puliš - 2015.In: Acta Avionica. Roč. 17, č. 1 (2015), s. 34-39. - ISSN 1335-9479 Spôsob prístupu: www.tuke.sk/lf/acta-avionica.tuke.sk.
- [BOVA, Štefan - PULIŠ, Pavel]
- ADF006 [163934] Aerosalón MAKS 2015. Jeden z najväčších leteckých sviatkov / Stanislav Szabo - 2015.In: Obrana. Roč. 23, č. 11 (2015), s. 22-25. - ISSN 1336-1910
- [SZABO, Stanislav]
- ADF007 [162652] Risk elimination in air transport / Martin Petruš ... [et al.] - 2015.In: Acta Avionica. Roč. 17, č. 1 (2015), s. 62-67. - ISSN 1335-9479 Spôsob prístupu: <http://web.tuke.sk/lf/index.php?name=68>.
- [PETRUF, Martin - KOLESÁR, Ján - KOŠČÁK, Peter - FERENC, Ján]
- ADF008 [166485] Energy safety at the airport / Viktória Rudasová, Peter Koščák - 2015.In: Acta Avionica. Roč. 17, č. 2 (2015), s. 1-6. - ISSN 1339-5853
- [RUDASOVÁ, Viktória - KOŠČÁK, Peter]
- ADF009 [166490] Analysed accidents rate of aircrafts Boeing 737 and Airbus A320 / Dorota Božíková, Peter Koščák - 2015.In: Acta Avionica. Roč. 17, č. 2 (2015), s. 1-5. - ISSN 1339-9853
- [BOŽÍKOVÁ, Dorota - KOŠČÁK, Peter]
- ADF010 [166493] Safety implementation of land aircraft servicing by technical equipments, pressure and gas equipments / Lucia Dlugošová, Peter Koščák - 2015.In: Acta Avionica. Roč. 17, č. 2 (2015), s. 1-3. - ISSN 1339-9853
- [DLUGOŠOVÁ, Lucia - KOŠČÁK, Peter]
- ADF011 [166901] Internal audit of airport company / Daniela Cimbaľáková, Ján Ferenc - 2015.In: Acta avionica. Roč. 17, č. 2 (2015), s. 1-8. - ISSN 1339-9853
- [CIMBALÁKOVÁ, Daniela - FERENC, Ján]
- ADF012 [166904] Effectiveness analysis of classical and wide body aircraft iv terms of airport operation / Lucia Jenčíková, Ján Ferenc - 2015.In: Acta avionica. Roč. 17, č. 2 (2015), s. 1-8. - ISSN 1339-9853
- [JENČÍKOVÁ, Lucia - FERENC, Ján]
- ADF013 [166908] Proposal passenger flow management at selected airports / Stanislava Ondová, Ján Ferenc - 2015.In: Acta avionica. Roč. 17, č. 2 (2015), s. 1-7. - ISSN 1339-9853
- [ONDOVÁ, Stanislava - FERENC, Ján]

- ADF014 [166910] The impact of design and construction of airport terminals on the behavior of passengers / Viktória Erbyová, Ján Ferenc - 2015.In: Acta avionica. Roč. 17, č. 2 (2015), s. 1-6. - ISSN 1339-9853 [ERBYOVÁ, Viktória - FERENC, Ján]
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POZVÁNKA NA PREDNÁŠKU A STRETNUTIE S PRACOVNÍKOM NASA
Národný úrad pre letectvo a vesmír (NASA) – garant kozmického
a leteckého výskumu USA

PHIL BURLEY

Odborné zameranie prednášky a diskusie: obežná dráha našej planetárnej sústavy, raketoplány, obežné dráhy meteoritov a asteroidov, budúcnosť cestovania na Mesiac a Mars.

Termín: 28.4.2015, od 14:00 hod.
Miesto: LF TUKE - poslucháreň 01 (B-19)

Phil Burley je pracovníkom NASA v Mission Control v Johnson Space Center Houston, Texas už 36 rokov. Absolvoval univerzitu v Texase a získal titul vo vesmírnom inžinierstve. Študoval astronómiu a orbitálnu mechaniku. V súčasnosti pôsobí na pozícii „Flight Dynamics Officer“. Jeho úlohou je riadiť vesmírne manévre na orbitálnej dráhe, ako napr. spojanie raketoplánov na medzinárodnej vesmírnej stanici, analyzovanie orbitálnych dráh, vytváranie presných ciest, potrebných pre úspešné zabezpečenie spojenia vesmírnych lodí s inými objektmi. V americkom Houstone bдел dlhé roky nad bezpečnosťou letov raketoplánov do vesmíru. Poslednou misiou raketoplánov bol let raketoplánu Atlantis v roku 2011. Jeho práca musí byť veľmi detailná – v zmysle výroku: „Všetko musí byť úspešné na prvý pokus!“

INVITATION TO A PUBLIC LECTURE BY NASA OFFICERS
National Aeronautics and Space Administration (NASA)
– a sponsor of USA space and aeronautics research

PHIL BURLEY

Professional subject of the lecture and discussion: the orbit of the planetary system, the shuttles, the orbits of meteorites and asteroids, the future of travelling to the Moon and Mars.

Date: 28th April 2015, starts at 14:00 p.m.
Place: Faculty of Aeronautics, TUKE – Auditorium 01 (B-19)

Phil Burley has been working for NASA Mission Control in Johnson Space Centre Houston, Texas for 36 years. At present he works as "Flight Dynamics Officer". His responsibility is to co-operate the space manoeuvres on the orbit, e.g. connecting the spacecraft on the international space platforms, analysing the orbits, creating specific routes necessary for successful connection of the spacecraft with other objects. His work must be very detailed – in a sense of the quotation – „Everything must be successful at the first time!“

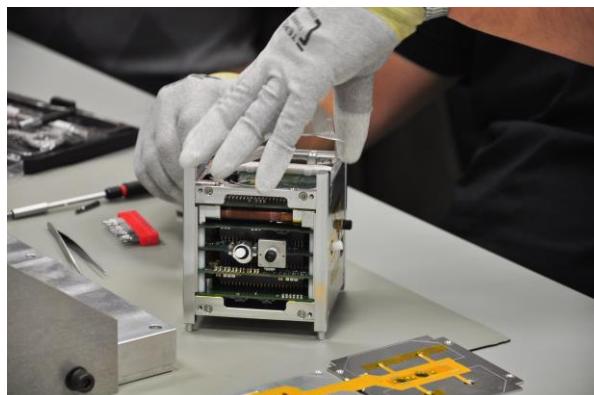
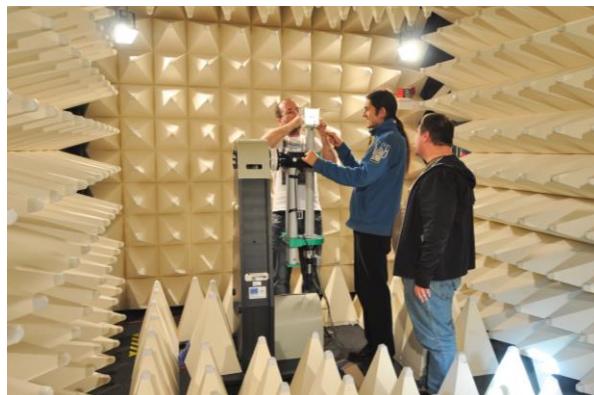
 
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