

Faculty of Transport and Traffic Engineering

Division of Aircraft

Scientific field (Frascati Manual)

Transport engineering

Aerospace engineering

Brief description of expertise

Management, planning, organization and exploitation cost of transport aircraft. Maintenance, safety and security of aircraft. Computer simulation in the area of aircraft exploitation. Aviation and protection of the environment (emission of noise and pollutants). Energy efficiency of aircraft operations.

Keywords

aircraft, transport aircraft performance, aircraft powerplants, aircraft instruments, aircraft systems, aircraft safety and security, aircraft maintenance, aircraft and environmental protection, energy efficiency of aircraft, aeronautical engineering

Commercial services

Expertise of the damage of B727 type aircraft, reg. number YU-AKJ, on the A1 parking position of Belgrade Airport, Institute of Transport and Traffic Engineering, Belgrade, 1996.

Preliminary design of the fixed system for aircraft climatization and electrical energy supply on the A and C aprons of Belgrade Airport, Institute of Transport and Traffic Engineering, Belgrade, 2003.

Trend Group – Young People (TG-YP), Test Case – Nis Airport Reconstruction Project.

Expertise of the takeoff incident of F100 type aircraft, reg. number YU-AOM, and the damages of the Rolls-Royce TAY 650-15 engine fan blades, Institute of Transport and Traffic Engineering, Belgrade, 2010.

Expertise of the irregularities and flight incident of V-54 LASTA P2 aircraft above the Lisicji Jarak airport, Institute of Transport and Traffic Engineering, Belgrade, 2014.

Realized and current projects

A) NATIONAL PROJECTS

Title	Project ID	Funding source	Duration
Options for increasing energy efficiency of transport processes in air traffic	290051	Ministry of the Republic of Serbia	2005

Title	Project ID	Funding source	Duration
Review and analysis of measures applied in European countries aimed at improving the energy efficiency of transport	293004	Ministry of the Republic of Serbia	2007
Program for the reduction of emissions and noise in the system of air traffic of the Republic of Serbia	15007	Ministry of the Republic of Serbia	2008-2010
The system of environmental management in terms of emissions and the risk of transport aircraft accidents in the Republic of Serbia	TR36001	Ministry of the Republic of Serbia	2011-2014
Development of software and national database for strategic management of the development of transportation means and infrastructure in road, rail, air and water traffic by applying the European transportation network models	TR36027	Ministry of Education, Science and Technological Development of the Republic of Serbia	2011-2015

B) INTERNATIONAL PROJECTS

Title	Project ID	Funding source	Duration
Europe-Adriatic SEA-WAY	1°STR/0011	Adriatic IPA, Cross Border Cooperation 2007-2013	2014-2016
Transport Equity Analysis: assessment and integration of equity criteria in transportation planning (TEA)	COST Action TU1209	COST (European Cooperation in Science and Technology).	2013-2017

Name	Last name	Type of license	License No
Olja	Čokorilo	Responsible design engineer	370F19507
		of traffic and traffic signalisation	
Petar	Miroslavljević	Responsible design engineer	370C31805
		of traffic and traffic signalisation	

Industry group (according to "Gazette RS", No. 54/10)

Passenger air transport
 Freight air transport and space transport
 Technical testing and analysis
 Research and experimental development on natural sciences and engineering
 Higher education

Accredited laboratories

Title	Contact person
Laboratory for transport aircraft	Petar Miroslavljević

PhD thesis within the unit done according to the industry needs

Name	Last name	Title	Year	Mentor
Olja	Čokorilo	Risk Management	2010	Slobodan Gvozdenović
		Implementation in Safety Management System (SMS)		
Petar	Miroslavljević	Performance	2009	Slobodan Gvozdenović
		optimization climbing transport aircraft in operation costs		

Staff list within the unit

Name	Last name	Teaching/scientific title
Slobodan	Gvozdenović	Full professor
Ljubiša	Vasov	Full professor
Petar	Miroslavljević	Asistant professor
Olja	Čokorilo	Asistant professor

Name	Last name	Teaching/scientific title
Branimir	Stojiljković	Teaching and Research Assistant
Ivana	Čavka	Research Assistant