TEMATY PRAC DYPLOMOWYCH MAGISTERSKICH dla kierunku MECHANIKA I BUDOWA MASZYN – specjalność Aircraft Propulsion Systems -wpisy w pokoju 426

MBM - APS				
Lp.	**Temat projektu**	**Opiekun**	**Student**	**Uwagi**
1.	**Development of numerical model for testing a turbofan propulsion engine**	Wojciech Adamczyk *ITC*		
2.	**Analysis of the performance of the propulsion system with cycloidal rotor**	Mirosław Majkut *IMiUE*		
3.	**Gasdynamic assessment of aircraft auxiliary power unit**	Sławomir Dykas *IMiUE*		
4.	**Numerical analysis of the gas turbine convection cooling system**	Sebastian Rulik *IMiUE*		
5.	**Aerodynamics of the front wing of the formula SAE car**	Sebastian Rulik *IMiUE*	Karolina Żuk	
6.	**Exergo-ecological analysis of (selected) aviation system**	Lucyna Czarnowska *ITC*		
7.	**Simulation of turbojet engine characteristics taking into account turbine cooling system**	Sebastian Lepszy *IMiUE*		
8.	**Examination of the operating characteristics of the aviation turbo-shaft engine**	Daniel Węcel *IMiUE*		
9.	**Comparative analysis of selected geometric variants of labyrinth seals using numerical modeling (ANSYS CFX)**	Krzysztof Bochon *IMiUE*		
10.	**The environmental control system in commercial jet airliner – engineering and air quality aspects.**	Anna Mainka *Katedra Ochrony Powietrza*		
11.	**Thermo-Economic Analysis of Aircraft Power System**	Wojciech Stanek *ITC*		
12.	**Experimental studies of selected labyrinth seal configurations**	Krzysztof Bochon *IMiUE*		
13.	**Modeling of combustion process and pollutants formation in an aircraft engine combustion chamber by means of computational fluid dynamics**	Adam Klimanek *ITC*		
14.	**Modeling of combustion and pollutants formation in an aircraft engine combustion chamber by means of a reactor networks using Cantera software.**	Adam Klimanek *ITC*		
15.	**Thermodynamic analysis of the selected modifications to the turbojet engine**	Andrzej Nowak *ITC*		
16.	**Modeling combustion process within jet-engines using LES-CFD approach combined with reduction models**	Wojciech Adamczyk *ITC*		
17.	**Stresses in a rotor in an aircraft turbofan engine under various operating conditions**	Wojciech Kosman *IMiUE*		
18.	**Experimental and analytical investigations of thermal interface material**	Zbigniew Buliński *ITC*		
19.	**Mathematical modelling of multiphase flows through ejector**	Zbigniew Buliński *ITC*		
20.	**Analysis of thermo-mechanical stress witin a turbine blade.**	Grzegorz Nowak *IMiUE*		

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