



National Defense Academy



Personal Information

Name Surname: Givi Sanadze

Date of birth: 07.06.1970

Nationality: Georgian

Education

Postgraduate study at Georgian Technical University (1994-1998).

Doctor of Engineering in specialties: 1. Dynamics and strength of cars; 2. Design and construction of aircraft.

Georgian Technical University (1993-1994). Faculty of Economics and Business Relations. Specialty: Manager.

Georgian Technical University. Aviation Institute (1987-1993).

Specialty: Aeronautical Engineering. Qualification: Mechanical Engineer.

Georgian Technical University. Faculty of Public Professions (1990-93)

Specialty: Translator of scientific and technical literature of German language.

Mukhrani school in Mtskheta district. (1976-1987)

Workplace, experience

2019-present. Head of Mechanical Engineering, Professor. LEPL - David Agmashenebeli Georgian National Defense Academy. Gori, Tskhinvali Highway, 3rd km. <https://eta.edu.ge> Leading the undergraduate program in Mechanical Engineering and conducting relevant training courses.

2016-present. Leading researcher. Georgian Technical University. Institute of Engineering Physical Problems. 0175, Georgia, Tbilisi, 77 Kostava Street. [Http://gtu.ge/](http://gtu.ge/) Conducting scientific research activities and participating in projects.

2015– present. Ministry of Defense of Georgia. General Staff of the Georgian Armed Forces. Command of Exercises and Military Education. Aviation and Air Defense Center. Teaching Supervisor Specialist.

1913-2016. Specialist of Student-Youth Development Division. Consultant in Aerodynamics, Department of Structural Design Research and Development. LEPL - Military Scientific-Technical Center "Delta". Beri Gabriel Salosi 191, Tbilisi 0144. <http://www.delta.gov.ge>.

2006-2015. Instructor of Aerodynamics and Flight Dynamics. LEPL - David Agmashenebeli National Defense Academy. Gori, Tskhinvali Highway, 3rd km. <https://eta.edu.ge> Conducting lessons and methodological work.

2003-2005. Leading researcher. Georgian Technical University. Faculty of Transport and Mechanical Engineering. Precision Micro Tools Scientific Research Laboratory. 0175, Georgia, Tbilisi, 68 Kostava Street. [Http://gtu.ge/](http://gtu.ge/) Conducting scientific research activities and participating in projects.

1994-2002. Head of Laboratory, Senior Teacher, Associate Professor. Georgian Technical University. Aviation Institute. Department of Flight Operations, Flight Safety and Aerodynamics. Georgia, Tbilisi, Tsamebuli Avenue 16. Conducting

lessons and methodological work.

Courses and trainings taken

Course for development and presentation of training programs of the Georgian Armed Forces. National Training Center "Krtsanisi". Gardabani district. The village of Krtsanisi. 2016.

List of scientific papers (last 10 years)

1. Fighter unmanned aerial system. G. Sanadze, M. Zoidze, D. Bestavashvili. Transport and machine building. Tbilisi. 2018. # 2 (42). 81-87 p.
2. History of Aviation Development. G. Sanadze. Joint Staff of the Georgian Armed Forces. D.P. 7-02.1. 2015 182 p.
3. Hydraulics. G. Sanadze. Joint Staff of the Georgian Armed Forces. Tbilisi 2014. 139 p.
4. Ballistics. G. Sanadze. Joint Staff of the Georgian Armed Forces. Tbilisi 2013. 403 p.
5. Practical aerodynamics of the Su-25 aircraft. G. Sanadze. Joint Staff of the Georgian Armed Forces. Tbilisi 2013. 117 p.
6. Practical aerodynamics of the L-39 aircraft. G. Sanadze. Joint Staff of the Georgian Armed Forces. Tbilisi 2012. 100 p.
7. Taking into account changes in air characteristics during aerodynamic calculation and operation of the vehicle. G. Sanadze. Transport and machine building. Tbilisi. 2012. # 2 (24). 99-104 p.
8. Practical aerodynamics of Mi-8 helicopter. G. Sanadze. Joint Staff of the Georgian Armed Forces. Tbilisi 2012. 105 p.
9. Improving the aerodynamic characteristics of the helicopter bearing screw by utilizing its non-working zone. G. Sanadze. Transport and machine building. Tbilisi. 2011. # 2 (21). 118-123 p.
10. Prospects for the development of unmanned helicopters and the improvement of aerodynamic coordination. Transport and machine building. G. Sanadze, Z. Midelashvili. Tbilisi. 2011. # 2 (21). 62-66 p.
11. New technologies of vertical take-off and unmanned aerial vehicles for patrol and reconnaissance purposes and prospects for their use in Georgia. G. Sanadze. Proceedings of the Academy. Davit Agmashenebeli National Defense Academy of Georgia. Tbilisi 2011. ISSN: 1512-0708. # 3. Pp.123-128.
12. Increase the maximum speed of the helicopter by using the control layer adjacent to its bearing screw wing. N. Kanchaveli, G. Sanadze. Proceedings of the Academy. Davit Agmashenebeli **National Defense Academy of Georgia. Tbilisi 2011. ISSN: 1512-0708. # 3. Pp.129-134.**

Participation in conferences, congresses, symposia

1. Problems of group use of combat unmanned aerial vehicles. M. Zoidze, G. Sanadze. David Agmashenebeli Georgian National Defense Academy. 'Scientific-Practical Conference: Global-Regional Security Challenges and Defense Forces'. November 12, 2020. ISBN 978-9941-8-2796-9.
2. Balance of unmanned military aviation in the Black Sea region. G. Sanadze, M. Zoidze. David Agmashenebeli Georgian National Defense Academy. International Scientific Conference "Security Challenges of the Black Sea Region" International Scientific Conference "Security Challenges of the Black Sea Region". December 18, 2020.
3. Challenges and perspective with using a group of small attack unmanned aerial vehicles. Mamuka Zoidze, Gibvi Sanadze. 10th International Scientific and Practical Internet Conference "Current challenges and topical Issues in science, education and production: cross-sectoral debates". November, 13 2020. Kiev (Ukraine). ISSN 2708-1257.
4. Improve the helicopter bearing screw characteristics by reducing losses at the wing ends. XIV International Scientific-Technical Conference. Trans & MOTAUTO`07. Rousseau. Bulgaria. 08-10 November. 2007
5. Classification of air screw of variable geometry. XIII International Scientific-Technical Seminar. "High Technologies: Development Trends". Alushta. Ukraine. 2003

Participation in scientific research projects

Project "Variable Geometry Rotor" (Variable Geometry Rotor. # G-060; # G-060).

Project Sponsor: International Science Research Center (ISTC).

Leading organization: Georgian Technical University.

Collaborator Organization: US company Boeing Defense & Space Group. 04.10.1995 - 15.12.2002.

Knowledge of languages

Georgian language - native, perfect;

Russian language - perfectly;

English - middle;

German language – middle.

computer programs

Microsoft Office: Word, Excel, Power-point.

Additional information

1. Honorary member of Alexander Kartveli (Kartvelishvili) International Society. Tbilisi 2016

2. Scholar of the President of Young Scientists. Decree # 172 of the President of Georgia of May 2, 2000.