

APPROVED

Chairman of the Organizing Committee

June 09, 2026

Dmytro BABENKO

Results of the 2nd stage of the International Student Professional and Creative Competition «Agricultural Sciences and Food» in the field of agricultural engineering

№	Institution of higher education, country	Title of work	Author (s)	Supervisor (s)	Number of points in round 1	Number of points in round 2	Total number of points	Diploma, degree
1	2	3	4	5	6	7	8	9
1	Stepan Gzhytskyi National University of Veterinary Medicine and Biotechnologies Lviv (Ukraine)	Evaluation of accelerator pedal strength under critical loads using the finite element method	Bohdan Hrudetskyi Bohdan Lavrys	Ruslan Humeniuk Vitaliy Vlasovets	92,5	25,45	117,95	I
2	State Biotechnological University (Ukraine)	Increasing the efficiency of the operation of a machine-tractor unit by developing a soil cultivation depth control system	Bohdan Zhadan Eduard Zmiievskyi	Roman Antoshchenkov Ivan Halych	92,0	20,4	112,4	I
3	National University of Life and Environmental Science of Ukraine (Ukraine)	Enhancing reliability of manitou telehandlers in debris clearance operations for grain infrastructure recovery under high-dust conditions: engineering solutions for post-war agricultural resilience	Vladyslav Bastylo Vadym Pidvisotskiy	Andrii Novytskyi Valentyna Melnyk	87,0	24,3	111,3	I
4	Kharkov National Automobile and Highway University (Ukraine)	Electrospark engineering of wear-resistant surfaces for high-load components in construction and mining equipment	Valeriia Sierokurova Kyrylo Yermakov	Diana Hlushkova	88,0	17,8	105,8	I

1	2	3	4	5	6	7	8	9
5	National Technical University «Kharkiv Polytechnic Institute» (Ukraine)	Energy-saving wood drying solutions for farms and agricultural operations	Elizaveta Sitalo Oleksandr Kundenko	Olga Iegorova Svitlana Molchenko	85,5	18,0	103,5	I
6	Sumy State University (Ukraine) Mykolayiv National Agrarian University (Ukraine)	Research on technology for rolling and unrolling rotating parts with flexible rollers	Anatolii Mykytyuk Yaroslav Baturin	Vitalii Ivanov Oleksandra Zubiekhina-Khaiiat	86,0	16,7	102,7	I
7	National University of Water and Environmental Engineering (Ukraine) Mykolayiv National Agrarian University (Ukraine)	Forecasting agro-engineering indicators	Andriy Gushpet Vladyslav Hotilov	Olena Nalobina Vitalii Pozhyvatenko	83,5	19,1	102,6	I
8	Constanta Maritime University (Romania) Mykolayiv National Agrarian University (Ukraine)	Implementation of machine for separating seeds of vegetable and melon crops into the production line	Viktoria Nadtochii Maksim Vasilkov	Ion Letitia Olena Gorbenko	85,5	17,0	102,5	I
9	Kherson Educational and Scientific Institute of the Admiral Makarov National University of Shipbuilding (Ukraine) Mykolayiv National Agrarian University (Ukraine)	Improvement of energy-saving technologies in irrigated agriculture at the national scientific and practical centre «MNAU»	Karina Duzhuk Andriy Lashchenko	Iryna Nadtochii Irina Sukovitsina	85,0	17,4	102,4	I
10	National University "Zaporizhzhia Polytechnic" (Ukraine)	Integrated reverse-engineering technology for the production of sheet metal structures for agricultural machinery	Bogdan Ryasnenko Maksym Babich	Serhii Tanchenko Mykhaylo Frolov	82,0	20,35	102,35	I

1	2	3	4	5	6	7	8	9
11	National University of Life and Environmental Science of Ukraine (Ukraine)	Research into the technological reliability of a seeding apparatus with a directional doser as a means of resource saving	Yevheniy Troian Kira Tarushko	Pavlo Popyk Ruslan Kulpin	83,0	19,2	102,2	II
12	Poltava State Agrarian University (Ukraine)	Improvement of the technological process of repairing hydraulic systems of agricultural machines	Dmytro Starokozhko Ivan Moshenko	Oleksandr Gorbenko	83,5	18,65	102,15	II
13	Kremenchuk Mykhailo Ostrohradskyi National University (Ukraine) Mykolayiv National Agrarian University (Ukraine)	Study of the characteristics of a transformer with an amorphous alloy core	Bohdan Haidenko Oleksandr Vilchinskiy	Hennadii Rykov Dmytro Babenko	84,5	17,5	102	II
14	Mykolayiv National Agrarian University (Ukraine)	Research into the optimal design parameters of the opener that affect the efficiency of the grain seeder	Tyma Oleg Hruban Oleg	Vasyl Hruban Antonina Haleeva	81,0	20,9	101,9	II
15	University of Life Sciences in Lublin (Poland) State Biotechnological University (Ukraine)	Experimental evaluation of the performance of grain drill coulters under minimum tillage conditions	Paulina Drozd Andrii Kolpachenko	Andrzej Marczuk Roman Kyrychenko	84,0	17,85	101,85	II
16	Dnipro State Agrarian And Economic University (Ukraine)	Reasoning of material and technology for manufacturing composite parts for agricultural equipment	Dmytro Pelypas	Dmytro Makarenko	85,0	16,8	101,8	II

1	2	3	4	5	6	7	8	9
17	Kharkov National Automobile and Highway University (Ukraine)	Synthesis and optimization of the properties of Cu-Al ₂ O ₃ metal-ceramic composite coatings with controllable thermophysical characteristics	Vitalii Sharovka Dmytro Salatskyi	Diana Hlushkova	81,5	20,25	101,75	II
18	Mykolayiv National Agrarian University (Ukraine)	Restoration of hydraulic cylinders of agricultural machinery with a dimensional composite coating based on chromium	Ihor Okhrimenko Valeriy Khomenko	Dmytro Marchenko Oleksandr Lymar	83,0	18,65	101,65	II
19	Kremenchuk Mykhailo Ostrohradskyi National University (Ukraine)	Control of heating system equipment under technological limitations	Valeriia Sukhomlyn Aleksya Markina	Viacheslav Prus	83,0	18,3	101,3	II
20	Mykolayiv National Agrarian University (Ukraine)	Intensification of the process of hydraulic separation of the seed mixture of pumpkin crops	Maksym Kocherzhenko Vitaliy Ovcharenko	Pavlo Polyansky Gennady Ivanov	82,5	18,5	101	II
21	International Academies of Applied Sciences in Łomża (Poland) Mykolayiv National Agrarian University (Ukraine)	Comparison of the efficiency of home photovoltaic power plants in 2024-2025 under real operating conditions in agriculture in the Suwałki region	Dariusz Wojciechowski Vladyslav Olyzko	Jolanta Puczel Sergey Stepanov	79,0	21,9	100,9	II
22	National University of Civil Defence of Ukraine (Ukraine)	Improving the safety level of agricultural machinery	Anhelina Miroshnichenko Nelia Chupryna	Bohdan Tsymbal	83,0	17,7	100,7	II

1	2	3	4	5	6	7	8	9
23	Lutsk National Technical University (Ukraine)	Research of the working body and justification of the design of a tool for deep soil loosening	Bohdan Pastushok Yaroslav Nesteruk	Ihor Tsyz Serhii Khomych	81,0	19,6	100,6	II
24	Central Ukrainian National Technical University (Ukraine)	Development and substantiation of a spring-loaded covering device for a row-crop planter	Oleksandr Chuchupaka Mykhailo Vasylovsky	Dmytro Artemenko	76,5	24,0	100,5	II
25	Admiral Makarov National University of Shipbuilding (Ukraine) Mykolayiv National Agrarian University (Ukraine)	Development of a device for egg ozonation during incubation	Vladyslav Korolchuk Yeremey Chikirev	Andriy Radchenko Andriy Rudenko	84,0	16,1	100,1	III
26	Kherson Educational and Scientific Institute of the Admiral Makarov National University of Shipbuilding (Ukraine) Mykolayiv National Agrarian University (Ukraine)	Energy-saving technology of pre-sowing soil cultivation in vegetable growing	Ivan Dontsov Kyrylo Vatula	Alla Rusnak Mykyta Khramov	83,5	16,4	99,9	III
27	Kremenchuk Mykhailo Ostrohradskyi National University (Ukraine)	Study of cooling systems for traction electric drive motors	Valerii Melnichenko Andrii Kobreniuk	Mykhaylo Zagirnyak	80,5	19,3	99,8	III
28	Kyiv National University of Construction and Architecture (Ukraine) Mykolayiv National Agrarian University (Ukraine)	Numerical definition of dynamic characteristics of railway bridges	Mykola Nazarenko Andrii Oliinyk	Maksym Delembovskyi Olena Boychuk	80,0	19,6	99,6	III

1	2	3	4	5	6	7	8	9
29	Kremenchuk Mykhailo Ostrohradskyi National University (Ukraine)	Increasing the efficiency of the system of planned and preventive repairs of electrical machines by implementing the determination of their actual condition	Bohdan Raida Vladyslav Petrov	Oleksandr Somka	81,5	18,0	99,5	III
30	Kherson Educational and Scientific Institute of the Admiral Makarov National University of Shipbuilding (Ukraine) Mykolayiv National Agrarian University (Ukraine)	Analysis of the use of hydrogen additives in diesel engines of agricultural machinery	Maksym Korogod Oleksandr Troyan	Denis Shalapko Larisa Vakhonina	84,0	15,4	99,4	III
31	Mykolayiv National Agrarian University (Ukraine)	Implementation of resource-saving equipment in tomato processing lines	Maxim Denisov Oleksandr Parkhomets	Nataliia Dotsenko Olena Baranova	78,5	20,8	99,3	III
32	Kharkov National Automobile and Highway University (Ukraine)	Adaptive plasma coatings for gas turbine engine components	Oleksandr Zubkov Daniil Shatiiiev	Diana Hlushkova	78,5	20,75	99,25	III
33	Admiral Makarov National University of Shipbuilding (Ukraine) Mykolayiv National Agrarian University (Ukraine)	Wastewater treatment in the agro-industrial complex using an electrocoagulation unit	Darya Dovzhenko Ivan Orekhovsky	Maksym Bobrov Sadovyi Oleksii	78,0	20,45	98,45	III
34	Kremenchuk Mykhailo Ostrohradskyi National University (Ukraine)	Research into vibration processes in electromechanical systems and methods for their reduction	Ivan Yuritsyn Daria Hapieiieva	Viktoriia Nozhenko	79,0	19,25	98,25	III

1	2	3	4	5	6	7	8	9
35	Mykolayiv National Agrarian University (Ukraine)	Improving the energy efficiency of a grain drying plant	Vladislav Kotelnikov Vyacheslav Sheptytskyi	Andriy Stavynskyi Vitalii Mardziavko	79,0	19,15	98,15	III
36	Volodymyr Dahl East Ukrainian National University (Ukraine)	Analysis of mounted agricultural machines and increasing the efficiency of their application	Viktor Ishchenko Stanislav Baydachenko	Grigory Melkonov Hryhorii Fesenko	80,5	17,4	97,9	III
37	Polissia National University (Ukraine)	Study of the tribological characteristics of the soil medium	Bohdan Bystrytskyi Askold Lystukha	Kostiantyn Borak Volodymyr Kulykivskyi	76,0	21,7	97,7	III
38	Kharkov National Automobile and Highway University (Ukraine)	Research on the influence of surface condition on the corrosion resistance of steel products	Serhii Minaiev Oksana Vladymyrova	Nataliia Lalazarova Viacheslav Stolbovyi	78,0	18,2	96,2	III
39	Sumy National Agrarian University (Ukraine)	Efficiency assessment of mineral fertilizer spreader performance in variable rate application	Maksym Romas Oleh Piskovyi	Oleh Piskovyi Andrii Chepizhnyi	79,0	17,1	96,1	III
40	Kherson Educational and Scientific Institute of the Admiral Makarov National University of Shipbuilding (Ukraine) Mykolayiv National Agrarian University (Ukraine)	Improvement of autonomous small-capacity hydroelectric power plants for driving heat pumps	Diana Gurina Nazar Guzenko	Ivan Kalinichenko Dmytro Koshkin	77,5	18,5	96,0	III
41	O.M. Beketov National University of Urban Economy in Kharkiv (Ukraine)	Development of an axial synchronous motor with an external rotor as an electric drive for a grain dryer fan	Vladyslav Rakytyansky Andriy Zakrevsky	Oleksiy Iegorov	77,0	18,0	95,0	III

1	2	3	4	5	6	7	8	9
42	Sumy National Agrarian University (Ukraine) Mykolayiv National Agrarian University (Ukraine)	Comparison of the efficiency of sprayer application rate controller and pulse-width modulation (pwm) system in plant protection product application	Bohdan Rashchenko Nikita Danilov	Tetiana Khvorost Oleksandr Tsyganov	76,0	18,7	94,7	III
43	National University of Life and Environmental Science of Ukraine (Ukraine)	Modernisation of the design of plate-type vacuum pumps as a means of increasing their service life	Marharyta Danilova Anastasiia Cherkas	Zinovii Ruzhylo Dmytro Velykoivanenko	73,0	21,6	94,6	III
44	Admiral Makarov National University of Shipbuilding (Ukraine) Mykolayiv National Agrarian University (Ukraine)	Development of an electrotechnological unit for studying electropulsolysis of fruit crops with cell microstructure analysis	Serhiy Vasylenko Denys Khom`yak	Oleg Savenkov Volodymyr Martynenko	73,5	19,25	92,75	III
45	State Biotechnological University (Ukraine)	Investigation of machines for shredding crop residues	Yehor Chernyshov Oleksandr Vus	Andrii Pakhuchyi Oleksandr Kozii	75,5	12,8	88,3	III
46	Kharkov National Automobile and Highway University (Ukraine)	Kinetics of deformation processes in 10G2FB steel welds during gas shielded welding	Serhii Seleznev Oleksandr Lapenko	Diana Hlushkova	73,0	14,15	87,15	III
47	Dniprovsky State Technical University (Ukraine)	Precision asynchronous electric drive with dual-zone velocity control	Oleh Naumenko Illia Melasanov	Oleksandr Derets	69,5	17,25	86,75	III

1	2	3	4	5	6	7	8	9
48	L. B. Goncharov Kazakh Automobile and Road Institute (Kazakhstan) Kharkiv National Automobile and Highway University (Ukraine)	The effect of heat treatment regimes on the microstructure and mechanical properties of 60C2A spring steel	Stepan Tkachenko Andrii Putivskyi	Ulbala Murzakhmetov a Diana Hlushkova	68,0	15,6	83,6	III

Chairman of the Jury

Secretary of the Jury
June 05, 2026

Dmytro KOSHKIN

Pavlo POLYANSKY