

State budget funding projects implemented by National Pedagogical Dragomanov University

Social Science

Name of project: Acmeological principles of professional and pedagogical training of educational staff

Project manager: Guziy Natalia, Educational and Scientific Institute of Continuing Education

Project duration: 2015-2017

Project Description: Development of fundamentally new acme-oriented conceptual models of professional and pedagogical training of educational staff in the system of continuous pedagogical education

Name of project: Conceptual principles of social protection institutions' management system in Ukraine

Project manager: Yaroshenko Alla, Faculty of Socio-Economic Education

Project duration: 2015-2017

Financing: 246,600

Project Description: Research of conceptual bases of social protection institutions' management and based on the results of development of educational and methodological support for professional training of specialists in the field of Social work.

Name of project: Theory and technology of training in the system of vocational education

Project manager: Padalka Oleg, Faculty of Engineering and Pedagogy

Project duration: 2015-2017

Project Description: Theoretical substantiation and development of methodology for creating a system of vocational education, innovative forms, methods and didactic toolkit of through-training pedagogical personnel for the system of vocational education and their implementation in the educational process development.

Name of project: Conceptual principles of cognitive technologies in Education

Project manager: Viktor Andrushchenko, Faculty of Management Education and Science

Project duration: 2016-2018

Project Description: Based on the post-classical methodology of development and implementation of innovative cognitive technologies in education, decision-making technologies, innovative approaches to learning. Development of methodological conceptual frameworks and practical recommendations for the implementation of modern cognitive technologies in education and management, as well as for improving the cognitive performance of people affected by major social changes.

Name of project: Corrective assistance system for children and adolescents with autism spectrum disorders

Project manager: Sinyov Viktor, Faculty of Special and Inclusive Education

Project duration: 2016-2018

Project Description: Creation of continuous pre-school, special and inclusive education for persons with autism spectrum; correctional education of children with autistic disorders in the family and development and testing of correctional and educational work with them; preparation of specialists (correctional educators, special psychologists, speech therapists, rehabilitologists) for correctional work with autistic children; scientific substantiation, introduction of pedagogical and psychotherapeutic work with families as an important factor of psychological and pedagogical support of autistic children in society; preventing the process of psychological derivation and disability of persons with autism through the implementation of a state policy based on such consistent steps as: creation of a single statistical database for persons with autism; improvement of the legal support of social and legal guarantees for persons with autism.

Name of project: Theoretical and methodological bases of the postgraduate education system development on the principles of sustainable development

Project manager: Ridey Natalia, Educational and Scientific Institute of Continuing Education

Project duration: 2017-2019

Project Description: Based on the post-classical methodology of development and implementation of innovative cognitive technologies in education, decision-making technologies, innovative approaches to learning. Development of methodological conceptual frameworks and practical recommendations for the implementation of modern cognitive technologies in education and management, as well as for improving the cognitive performance of people affected by major social changes.

Name of project: Cloud oriented learning environment for future teachers

Project manager: Volodymyr Sergienko, Educational and Scientific Institute of Continuing Education

Project duration: 2017-2019

Project Description: Theoretical discourse and development of the main components of the cloud-oriented student learning environment in higher education.

Name of project: Psychological and pedagogical support of education and development of preschool children from internally displaced families

Project manager: Irina Lutsenko, Faculty of Pedagogy and Psychology

Project duration: 2017-2019

Project Description: Development of the newest methodology of psychological and pedagogical support of upbringing and development of preschool children from the internally displaced families and methods of future educators trainings and theoretical discourse and experimental verification of pedagogical conditions of their implementation in practice.

Name of project: Conceptual model development of reintegration of Ukrainian displaced universities.

Project manager: Sergey Terepyshchyi, Faculty of Management Education and Science

Project duration: 2017-2020

Project Description: Conceptual model development of reintegration of Ukrainian displaced universities and providing recommendations for the state authorities on practical steps of rebuilding the higher education system.

Name of project: Comprehensive social assistance to vulnerable categories of population as a priority area of Ukraine's social policy.

Project manager: Alla Yaroshenko, Faculty of Socio-Economic Education

Project duration: 2018-2020

Project Description: Modeling and development of integrated social assistance projects for vulnerable populations.

Name of project: Modernization of the teacher training system based on the concept of the new Ukrainian school.

Project manager: Volodymyr Sergienko, Educational and Scientific Institute of Continuing Education

Project duration: 2019-2021

Project Description: Advance modernization of the teacher training system to create a teacher training base and provide the conditions for the modern models of professional and personal development, which will become a key condition for the implementation of reform of secondary education and the concept of "New Ukrainian School".

Name of project: Ukrainian higher education as an instrument of peacebuilding strategy.

Project manager: Denis Sviridenko, Faculty of Management Education and Science

Project duration: 2019-2021

Project Description: Development of a step-by-step strategy of using Ukrainian higher education as a factor of peacebuilding and providing recommendations for state authorities, local self-government bodies, educational institutions on the practical steps of its implementation.

Mathematical sciences

Name of project: Investigation of evolutionary deterministic and stochastic systems of complex topological-metric structure. Fractal properties, controllability.

Project manager: Mykolai Pracyovytyi, Faculty of Physics and Mathematics

Project duration: 2017-2019

Project Description: Creation of a complex of analytical and topological methods for studying asymptotic and qualitative behavior of evolutionary systems, which are mathematical models of objects with fractal properties that function in environments of complex physical nature; development of the basics of topological-metric analysis of the images of numbers as a means of describing and exploring evolutionary systems and studying their local and global fractal properties.

Name of project: Spectral problems of the theory of differential operators.

Project manager: Vladimir Derkach, Faculty of Physics and Mathematics

Project duration: 2017-2019

Project Description: New concepts and methods development in operator extension theory, spectral operator theory and their application in interpolation theory and direct and inverse theory for Schrödinger operators, canonical systems, Jacobi matrices and some generalizations of them.

Name of project: Fractal analysis of Jessen-Wintner random distributions and its application

Project manager: Grigory Torbin, Faculty of Physics and Mathematics

Project duration: 2017-2019

Project Description: Development of fractal analysis methods for probabilistic measures with complex local structure, which naturally emerge as invariant measures for a wide class of dynamic systems, in metric number theory, in coding theory.

Name of project: Modeling and fractal analysis of dynamic systems with locally complex mappings

Project manager: Anatoliy Turbin, Faculty of Physics and Mathematics

Project duration: 2017-2019

Project Description: Creation of theoretical scientific foundations for a thorough study of dynamical systems with locally complex mappings, which are often models of real physical, technical and information processes based on different systems of images of real numbers using Rademacher functions, Walsh series and transforms, and their generalizations fractal geometry and fractal analysis; development with rigorous justification of analytical and high-precision methods and high-speed algorithms for design and analysis, as well as the construction of a holistic theory of such systems.

Name of project: Statistical dynamics, generalized Fokker-Planck equations and their application to the theory of complex systems.

Project manager: Yuri Kondratiev, Faculty of Physics and Mathematics

Project duration: 2016-2018

Project Description: Investigation of infinite-dimensional spaces with complex local structure as phase spaces for modeling the random evolutions of complex systems arising from studies in physics, chemistry, biology, medicine, economics, finance, sociology, etc. Study of the statistical description of stochastic dynamics describing the corresponding evolution, taking into account the constraints on the system parameters that are imposed according to the real needs of these natural and social sciences.

Name of project: Direct and inverse problems of the spectral theory of differential and differential operators.

Project manager: Roman Nikiforov, Faculty of Physics and Mathematics

Project duration: 2018-2020

Project Description: Development of methods for the theory of generalized boundary triples, description of spectral and pseudospectral functions of arbitrary symmetric systems, development of a method for solving the Korteweg – de-Fries equations using inverse scattering problems for Schrödinger operators.

Name of project: Thermal, electrophysical and mechanical properties of special purpose polymer nanocomposites with phase instabilities

Project manager: Mykola Shut, Faculty of Physics and Mathematics

Project duration: 2018-2020

Project Description: Deepening and obtaining new fundamental knowledge in the process of studying the active influence of changes in the interphase interaction of components on the regularities of functional changes (absorption capacity in ultrasonic fields, physical-mechanical, optical, thermal) and operational properties of polymer nanocomposites. Detection and investigation of new effects by changing the phase interaction of components and their contents.

Name of project: Fractal geometry of numerical series and fractal analysis of stochastic objects associated with them

Project manager: Mykola Pracyovutuy, Faculty of Physics and Mathematics

Project duration: 2018-2020

Project Description: Obtain structural, topological, metric and fractal characteristics of random number series, infinite Bernoulli convolutions and stochastic differential equations on time scales, as well as a set of statistical criteria and metric estimates associated with singular probability distributions.

Name of project: Fractal geometry of numerical series and fractal analysis of stochastic objects associated with them

Project manager: Mykola Pracyovutuy, Faculty of Physics and Mathematics

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Name of project: Markov evolutions in real and p-adic spaces

Project manager: Yuri Kondratiev, Faculty of Physics and Mathematics

Project duration: 2018-2020

Project Description: Study of birth-death processes in p-adic spaces. Investigation of relevant nonlocal Markov generators, their perturbations and spectral properties in a p-adic coordinate system. Investigation of hopping processes on locally compact Abelian groups.

Name of project: Statistics of singular probability distributions and fractal continuous functions of random variables

Project manager: Yanina Goncharenko, Faculty of Physics and Mathematics

Project duration: 2019-2021

Project Description: Correct definition of a new infinitely parametric class of functions with complex local structure (singular, nowhere monotonic and non-differentiable). Investigation of their structural, global and local, self-similar and fractal properties.

Human Science

Name of project: German-Romano-Slavic corpus of authentic scientific texts on lingvoanthropogenesis: development of new generation technologies

Project manager: Alla Korolyova, Faculty of Foreign Philology

Project duration: 2017-2019

Project Description: Development and further creation of the German-Romano-Slavic corpus of original (authentic) scientific texts on lingvoanthropogenesis, united by the general principles of representativeness, authenticity, selectivity and balance, as well as the development of a special search engine for placing this corpus on the open access network .

Name of project: Ethno-national factor in the national policy of the Soviet communist regime against the Ukrainian and Polish peoples (1920 - 1940).

Project manager: Petro Chernogo, Faculty of Historical Education

Project duration: 2017-2018

Project Description: The study of the national policy of the Soviet Communist regime against the Polish and Ukrainian peoples during the 1920s and 1940s and the identification of the role and influence of the ethno-national factor on it, as well as the study of the problem of the national-cultural policy of the Stalin regime against the Polish minority in Ukraine.

Name of project: Integral system of art education as an ethno-cultural phenomenon.

Project manager: Vasyl Fedoryshyn, Faculty of Arts

Project duration: 2019-2021

Project Description: Scientific-theoretical substantiation and development of scientific and methodological complex that will facilitate the introduction of innovative methods of musical and choreographic teaching of children and youth adapted to modern conditions of art by developing ethno cultural foundations as a methodological basis of multilevel integral system of artistic values and fill the structural elements of the system with ethno cultural content.

Name of project: Creating a cognitive ontological environment "Vasyl Sukhomlinsky in Dialogue with Modernity".

Project manager: Maryana Marusinets

Project duration: 2019-2020

Project Description: For the first time a publicly accessible knowledge-oriented cognitive ontological environment is created, which will comprehensively reflect the scientific, pedagogical, journalistic heritage of Sukhomlinsky through harmonious integration and synchronization with the content of other informational and educational resources and networks.

Name of project: Creation of a transdisciplinary environment for the realization of scientific and educational discourses on Ivan Franko's creative heritage.

Project manager: Miroslav Zhaldak

Project duration: 2019-2020

Project Description: Creation of a cognitive publicly accessible informational resource that will reproduce in various aspects the stages of life, literary creativity (lyrics, epic, drama, artistic translations, etc.) and scientific activity of Ivan Franko-polyhistor whose content has been harmoniously integrated and synchronized with digital synchronization.

Name of project: Creation of a transdisciplinary museum exhibition "Ukrainian Schooling in the Context of Dialogue of Cultures (VI - beginning of XXI century)".

Project manager: Viktor Andrushchenko

Project duration: 2019-2020

Project Description: Creation of a network, cognitive, transdisciplinary and publicly available knowledge-oriented information resource, which, based on electronic copies of museum objects, scientific-auxiliary and methodological materials, would reflect the main stages and peculiarities of formation and development of national schooling in VI - early XXI century. and synchronized in content with other information and educational resources and networked digital assets based on interoperable interaction protocols to form a forestry and spatial virtual museum environment.