

EDUCATION | COOPERATION | DEVELOPEMENT





JAN DŁUGOSZ
UNIVERSITY
IN CZĘSTOCHOWA



EDUCATION, COOPERATION, DEVELOPEMENT – MODERN UNIVERSITY!

The first decade of the 21st century and the transformations connected with it have given a way to the change of a profile of the activity of the Polish universities and other institutions of tertiary education. This process also influenced the directions of development of the Jan Długosz University in Częstochowa giving a clear incentive to put a bigger emphasis on the development of scientific research. The access of Poland to the European Union, opening of the borders, new solutions in financing the tertiary education and the increase of expenditure on projects would make it possible to improve a closer collaboration of the University with business and industry, transfer of technology, expectations of the school and the whole society. That is why the aim of the publication, which is in your hands right now, is to present and popularize

the achievements and successes of the employees of the Jan Długosz University in Częstochowa in the last years. We encourage you not only to read it, but also to make use of these achievements and venture a closer collaboration with us. It will be a great pleasure for us if you take the advantage of this opportunity. We realise that while building a new society, the best way to be successful is to invest in a human being, to create opportunities for personal development and the sense of belonging to a dynamically developing community and region. Asking for the warm welcome of our publication, I am looking forward to the implementation of the following important projects that will enhance the Polish economy, enrich culture and respond to the questions bothering humanity, or simply will give us lots of reasons to be proud.

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EDUCATION

AREAS OF STUDY, SCIENTIFIC AND RESEARCH PROJECTS

→ SCIENTIFIC RESEARCH AND ARTISITIC ACTIVITY AT THE JAN DŁUGOSZ UNIVERSITY IN CZĘSTOCHOWA COVER ALL THE FIELDS OF ARTS AND SCIENCES

Research subject matter conducted by the scholars at the Faculty of Philology and History applies to, among others, the theory and history of literature, comparative literature studies, diachronic and historic linguistics, cognitive science, universal history, history of Poland, history of culture, contemporary literature of the German language speaking countries, development of communication competence in the process of teaching foreign languages, selected problem matters of social policies in the III Polish Republic, European institutions, development of Euroregions. Due to the integration with the Faculty of Social Sciences (2016), the division increased its educational offer and range of the research by the following directions of study: administration, psychology, accounting, sociology, and even management. Faculty workers conduct an animated scientific and research collaboration with the leading academic centres in Poland and Europe. A long list of contacts makes it possible to implement the projects with the universities from the Czech Republic, France, Lithuania, Germany, Russia and Ukraine. Continually growing prestige of the Faculty contributes to the fact that its graduates are sought and demanded by the representatives of major Polish companies. The Faculty has the right to grant doctoral de-

grees and post-doctoral degrees in the discipline of history. Due to this fact, it makes use of granting the title of a doctor honoris causa, the distinction, which has been accepted by many eminent Polish and foreign scientists.

At the Faculty of Mathematics and Natural Sciences, the scientific research is being conducted in the area of sciences, engineering, natural sciences, medical and health sciences, as well as physical culture sciences. A big emphasis is put on the development of new materials and technologies of their production and implementation. Scientific research is carried out in collaboration with a number of academic and research centres in Poland and abroad. Faculty's scientific partners include: the Institute of Technology in Karlsruhe (Germany), Vanderbilt University in Nashville (USA), University of Lviv of I. Franko's name (Ukraine), Institute of Polymers of the Bulgarian Academy of Sciences in Sophia (Bulgaria), University of Perugia (Italy), Institute of Polymers of the Slovakian Academy of Sciences in Bratislava (Slovakia), Université du Maine in Le Mans (France), Molecular and Macromolecular Research Centre of the Polish Academy of Arts and Sciences PAN in Lodz, Krakow Technological Institute, University of Natural Sciences in Krakow, Częstochowa Technological Institute, Wrocław Technological Institute, Silesian Technological Institute, Silesian University, University of Mining and Metallurgy in Krakow, Institute of Non-Ferrous Metals, Poznan branch.



While realising the tasks connected with the adaptation of the technologically advanced solutions of medical engineering, biotechnology, material engineering, as well as information technology and electronics in application uses, the Faculty cooperates with the enterprises, such as, Polski Lek S. A., Maspex and Cemex. As the result of the realised scientific research, the Faculty has been accepted to the Polintegra Centre (Transregional Scientific-Industrial Centre (Bio)-Polymers-Materials Technologies for the Economy). It is also a regular member of the European Polysaccharide Network of Excellence (EPNOE) comprising 28 academic partners and 12 research institutes from many European countries and Scientific Thematic Network LUMDET (Luminescent Detection of Ionizing Radiation). The Institute of Technique and Security Systems WMP belongs to the National Network of Central Point Partners of the European Agency of Safety and Health at Work (EU-OSHA). It results in joint enterprises of a promotional and educational character and extends the possibilities of carrying out research projects in the field of managing Safety and Health Regulations. The research works carried out by the Faculty resulted in the overall appreciation of the scientific committees. In 2016, Prof. Jerzy Drabowicz received the Award of the Minister of Science and Higher Education for lifetime achievements.

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The Faculty of Pedagogy conducts the research in the field of social sciences in the discipline

of pedagogy. Prof. JDU, Jarosław Jagieła, supervises the Research Team of Educational Transactional Analysis creating diagnostic tools allowing the analysis of generally understood educational issues in the aspect of transactional analysis. The team is conducting the research in this range and their results can be used in order to improve pedagogical activities. This is the only research team in Poland dealing with this issue.

In the field of theory of education and upbringing, the following research projects are carried out: metaphorical recognition of pedagogical ideas, reflectional education on different educational levels, including the school of higher education, multicultural education, educational effects of Far Eastern cultures and religions. The research in the field of rehabilitation of children, youth and adults and various difficulties and forms of assistance for children with disability and their families is realised within the framework of the sub-discipline of special education. Within the framework of work pedagogy, the research meeting the demands for lifetime counselling in different fields of existence and its different stages is undertaken.

The pioneer research concerning the development of a new profession in the system of family assistance – a family assistant, as well as their role, tasks, stages of methodological activity with the emphasis put on pedagogical aspects of this work, is conducted on the background of such sub-disciplines as special education and family education.

In the field of social work, a scheme of Case Management method has been developed, used in the work with people who need help, assistance and vocational activation.

Faculty of Arts conducts artistic activity and scientific research in the fields of arts (fine arts and musical arts), humanities and social science. The Faculty of Arts of Jan Długosz University consists of two institutes, the Institute of Music and the Institute of Fine Arts. The activity of both entities concerns the fields connected with the artistic, scientific and didactic development. Steady progress has been confirmed by both the structural changes that have been observed since the 90s of the 20th century and the activity of people responsible for creating the direction of the development. The Faculty of Arts staff consists of 25 independent scholars, of whom 14 have a doctoral degree. Both institutes employ the doctoral candidates and collaborators who support the didactic and creative process with their vast knowledge and experience. From the academic year 2017/2018, the Faculty of Arts will be educating the students in 5 fields of study: artistic education in the range of musical art, painting, graphics, photography and creation of visual transfer.

Faculty staff is represented by fine artists, well-known for their creative representations and academic works not only in Poland, but also in Europe and in the world. The Institute of Music deals

with the scientific research in the fields of: history, theory, and sociology of music. The unit conducts the artistic activity in the following disciplines: composition, conducting, instrumental studies, vocalism. Whereas, the artistic and scientific activity of the Faculty includes the disciplines in the fields of plastic arts, humanities and social sciences. These areas constitute the basis for the further building and developing of an important artistic and academic centre always being in search for modern and innovative solutions based on tradition in the context of ongoing changes.

Steady cooperation with numerous scientific and cultural centres in Poland and abroad can be the confirmation of the undertaken activities. Faculty staff, expanding and sharing their experience, are invited by foreign universities as guest professors and the Faculty of Arts steadily establishes its position as the centre for scientific and artistic research frequently visited by the academics from Germany, Ukraine, Slovakia, Croatia, the Czech Republic, Russia, and China. International exchange and multi-faceted view at the artistic, scientific, and didactic problems are the priorities in the further development of the Jan Długosz University in Częstochowa.

Since 2011, numerous scientific, research, and artistic projects have been and are realised in the areas mentioned above, fields, and disciplines supervised by faculty workers or doctoral candidates of the Uni-

versity financed by the Ministry of Higher Education, National Science Centre, National Centre for Research and Development and other institutions. The total amount of the procured funds for the realisation of projects in the years 2011 and 2017 (accomplished, or still in progress) amounts to over 9 million zlotys. Faculty of Mathematics and Natural Sciences implemented or is implementing 29 projects, Faculty of Philology and History – 8 projects, Faculty of Arts – 4 projects, Faculty of Pedagogy – 3 projects.

The obtained financial measures have been allocated to the purchase of modern scientific equipment, international mobility of the scientists, dissemination of the scientific and artistic works of the scholars and research fellows in Poland and abroad. The realised projects result in the scientific development of the faculty staff, subsequent academic degrees and academic titles, commencing scientific and artistic collaboration with the leading centres in Poland and abroad, as well as patent applications.





CHEMISTRY

→ THE ACADEMIC STAFF OF THE FACULTY OF MATHEMATICS AND NATURAL SCIENCES CONDUCTS THE ADVANCED RESEARCH IN THE FIELD OF CHEMISTRY AND MATERIAL ENGINEERING WHOSE EFFECTS ARE MODERN FUNCTIONAL MATERIALS.

Within the framework of two OPUS grants financed by the National Science Centre and realised in the years 2012–2015 under the supervision of Prof. Józef Drabowicz, a basic research connected with the material chemistry and organic synthesis methodology was conducted. The results of the accomplished research create the conditions for their extension onto the works on their applicative character. In the case of the first grant, it is connected with an essential extension of the knowledge on functioning of carbon nanotubes (a form of graphite – carbon allotrope used in pencils) created in the result of cylindrical folding of its surfaces by phosphorus and sulphur compounds and making use of new compounds, among others, to construct electrodes in batteries. In the case of the second grant, such possibilities result from the fact of obtaining a new group of applicable chemical reagents, such as chiral ionic liquids, liquid compounds. Their useful physical-chemical properties are provided by the presence of the so called ionic binding, which usually causes the crystallinity of the substance.

The project supervised by Prof. Piotr Bałczewski also realised the concept of the basic research in the field of material chemistry and organic synthesis dealing with the finding of active herbicides of quaternary am-

monium salts group, which contain in their chemical structure a different sequence of heteroatoms (N, S, O, halogen) than glyphosate, and the so far applied herbicides to which the plants have developed partial resistance, and yet they would not be P-modified aminoacids.

The project supervised by Prof. Volodymyr Pavlyuk is realised in the field of material engineering. The objective of the research group is to develop super light alloys of new generation and the lithium compounds for safe storage of hydrogen of high capacity (>8%). Such links can be used in the stationary and mobile devices. While the project supervised by Damian Kulawik M.A., belonging to the aforementioned research trend, refers to the development of the light lithium alloys Li-M-X (M=Mg, Al; X= B, C, Si) with mono and multiwall carbon nanotubes for hydrogen storage. Hydrogen storage in stable materials is a safe and effective way of storing energy.

The Institute of Chemistry, Natural Environment Protection and Biotechnology implemented a project concerning the protection of a patented method of the synthesis of new organic compounds and their biological activity, co-financed by the European Union from the European Fund of Regional Development within the framework of Innovative Economy Operational Programme. The realisation of this project ensured a patent protection for the results of statutory and own research carried out in the Institute. The project resulted in 12 Polish and 7 foreign patent applications. One Polish and one foreign application will be transformed into a patent till 2019. The project was supervised by Dr Wojciech Ciesielski and Dr Robert Biczak.

PHYSICS

Nanotechnology deals with the use of nanomaterials in all areas of life. The research of structural electron properties of nanocrystals BiVO₄ can contribute to the production of energy from the renewable sources (production of hydrogen by means of hydrolysis of water), natural environment protection (water treatment and self-degradation of pollution). In reference to the phenomenon of photocatalysis, BiVO₄ behaves in a quite unique way under the influence of the exposure to visible light and that is why it was an interesting research material within the framework of the project, "BiVO₄ based nanomaterials for photocatalytic applications" realised by the research group supervised by Prof. Małgorzata Makowska-Janusik in cooperation with Prof. Kassiby from the Université du Maine in France (POLONIUM Programme). The project objective was the synthesis of the materials based on BiVO₄ for the photocatalytic applications and testing their electron and optical properties by means of experimental research and quantum-chemical calculations.

The influence of semi-conductor and metallic nanostructures on the health of live organisms is the research subject of the team supervised by Prof. Makowska-Janusik in cooperation with Dr Halama from the Technical Institute in Koszyce (Slovakia) in the framework of Polish-Slovakian bilateral project titled "Nanotechnology safety: lifetime of nanoparticles and the role of oxidants on their redox properties". The project objective is the implementation of the quantitative methods allowing the forecasting of the stability, lifetime, oxidising potential,

corrosion behaviours of metals and semi-conductor materials in the form of nanostructures.

Moreover, the Institute of Physics conducts the research on bio-glasses as the materials for the implants of surgical bone loss, optically active materials to be applied in optoelectronics and radiation emitters. The works were realised within the framework of POLONIUM project supervised by Prof. Oleg Shpotyuk in cooperation with Equipe Verres & Ceramiques Université de Rennes 1 in France, and in the framework of bilateral Polish-Portuguese cooperation within the project supervised by Dr Michał Piasecki in cooperation with the Institute of Physics of the University of Aveiro.

In the field of theoretical physics the following research is conducted: the research of models of anomalous phase transfers, Josephson's bindings, a phenomenon of quantum electron transportation in the nano scale systems. This research was financed from the Preludium grant of National Science Centre and it was supervised by Dominik Szczyński. A certain part of research was conducted in cooperation with the Université du Maine in Le Mans (France). It was on the basis of that research that Dominik Szczyński completed his doctoral dissertation in the cotutelle system. The research was continued during Dominik Szczyński's two-year-long internship carried out in the Qatar Scientific Institute of Energy and Environment.

Ionising radiation is a stable element of natural environment, both due to the generally appearing iso-

topes and the cosmic radiation reaching the surface of the Earth. It also finds its application in various areas of life, such as, medicine (X-ray diagnostic, tomography, radiotherapy) preservation and sterilization of food, defectoscopy and others. Little doses of ionising radiation do not cause harmful effects on health, they can even act in a stimulating way, which is used by, the well-known in the world, radon spas. But huge doses can be dangerous and even fatal to the man's health.

The basic tool of radiological protection is a systematic measurement of the doses and radiological monitoring. The modern measurement methods use the phenomenon of luminescence, that is the emission of faint light that can be strengthened in a radiated detector by means of certain thermal, or optical stimulation.

Within the frameworks of the research projects in the field of luminescent dosimetry realised in the Luminescence and Biophotonics Works carried out by the team supervised by Prof. Arkadiusz Mandowski, the properties of new kinds of luminescent detectors and theoretical models of energy deposition mechanisms and radius recombination of detectors have been examined. New kinds of luminescent readers have been developed – laboratory reader "Helios" and an advanced, multifunctional module reader "Jupiter", which was created within the framework of the consortium of four academic centres: Silesian Technical University, Nicolaus Copernicus University in Torun, Institute of Nuclear Physics of the Polish Academy of Scienc-

es and Arts, supervised by Jan Długosz University in Częstochowa. These devices can be used to define the age (dating) of archaeological and geological objects by means of luminescent methods. Retrospective and breakdown dosimetry constitutes another area of application that allows the possibility to define a dose of ionising radiation also in the situation where specialist detectors are inaccessible and the information can be reached by the generally accessible materials and the objects of a general use, such as bricks, porcelain, kitchen salt, or the electronic parts of cell phones. The works on the commercialization of Helios and Jupiter readers are carried out. There is a chance of their implementation in the programme of Polish nuclear energy.

The project supervised by Magdalena Biernacka M. A., realised within the framework of the Preludium programme, undertakes an attempt of systematic examination of the properties of long-life luminescence and construction of phenomenological model of this phenomenon for halite obtained from Polish salt mines. Due to unusually strong luminescent signal, it is possible to use this material in retrospective and environmental dosimetry. Another possible area of application is connected with the planned construction of nuclear power works in Poland. Salt domes of Cechsztyń salt formation of Polish Lowland are being considered as a potential place of storage of radioactive waste. Therefore, halite may be "a natural dosimeter" providing important information about changes of the activity of the stored waste.



POLYMERS

→ POLYMERS, POLYMER MATERIALS, MACROCYCLIC COMPOUNDS AND THEIR APPLICATION TO OBTAIN BIO-MATERIALS, "INTELLIGENT" MATERIALS IN ENVIRONMENT CHEMISTRY CONSTITUTE AN IMPORTANT AREA OF INTERESTS AND RESEARCH ACTIVITY OF THE FACULTY OF MATHEMATICS AND NATURAL SCIENCES FELLOWS.

A team led by Prof. Janusz Kapuśniak conducts research on modification and functioning of starch – easily accessible, renewable, cheap, biodegradable natural polymer to develop starch materials of a significant application potential. In recent years, within the framework of the Applied Research Programme (NCBiR), a project was realised, whose objective was to obtain biopolymer materials representing properties beneficial from the point of view of technical applications, among others, for the production of natural biodegradable, multifunctional packaging and thermoplastics, as well as organic adhesives for paper processed from the flour products of Q-Farin type manufactured by Lubella Company.

Within the framework of a project conducted by Prof. Piotr Dobrzyński, a method for forming porous bio-reabsorbent scaffolding intended for the application in tissue engineering, indicating the property of shape memory, has been developed. The in vitro studies demonstrated

a possibility to use some developed cell substrates in the regeneration of substantial bone loss. Scaffolding in a strongly compressed form can be implanted into a damaged place by means of minimally invasive techniques. As a result of the body temperature impact, there comes a strong expansion of the volume of the scaffolding and exact adjustment into the space of the bone loss. The porous structure of the scaffolding allows spontaneous settlement of the implant by bone tissue cells, which should provide adequate regeneration of the damaged bone.

Prof. Cezary Kozłowski's team conducts the research on the application of macrocyclic compounds for the separation of toxic metal ions using polymer inclusive membranes. In the project supervised by Dr Jolanta Kozłowska, ionised crown ethers have been used to obtain that goal. Within the framework of the research conducted by Anna Nowik-Zajac M. A., it was indicated that the functionalised calixpyrroles of carboxylic functional groups, as the ion conveyors, indicate high selectivity in relation to Ag (I) ions, while anti-analogues of calixpyrroles in relation to Ag (I) and Cu (II) ions. The use of new materials containing immobilised macrocyclic compounds proposed by the NSC project supervised by Dr Iwona Zawierucha may be a promising solution for the improvement of the quality of natural environment due to their high efficiency, selectivity, stability and low energy demand.

FOOD TECHNOLOGY

More and more significant direction of works carried out by the faculty members of the Faculty of Mathematics and Natural Sciences is the research in the field of scientific basis of nutrition, food examination, and food technology. Such studies are realised by Prof. Janusz Kapuśniak and Dr Renata Barczyńska-Felusiak. Diet-dependent civilisation diseases caused by dietary errors, and particularly excessive consumption of high energy foods and little dietary diversity create actual social demands for food in favour of health, illness protection, as well as anti-aging processes. People suffering from obesity, diabetics, ischemic heart disease, high blood pressure, or osteoporosis are expecting the food ingredients that will improve their health, well-being and above all protect them against diseases. Great opportunities in this matter are created by the application of the tissue starch preparations of prebiotic properties. In recent years, such preparations have been developed by the team of scientists representing the Faculty of Mathematics and Natural Sciences under the supervision of Prof. Janusz Kapuśniak and the Institute

of Fermentation Technology and Microbiology of Lodz Technical Institute within the framework of the proprietary project of the Ministry of Science and Higher Education, N312326133. The prebiotic properties of these preparations were confirmed by an in vivo test run on rats carried out by the scientists from the Institute of Animal Breeding and Food Examination of the Polish Academy of Science in Olsztyn. It should be noted that the prebiotic preparations, which currently are the subject of industrial and semi-industrial examinations, have obtained the national patents (PL 221497 and PL 220965). The patented prebiotic preparations were used in the project directed by Dr Renata Barczyńska-Felusiak, who carried out the research on the layout and reciprocal proportion of intestine microorganisms of both slim and obese children and the use of starch preparation in facilitating of the process of the reduction of body mass by activating the development of the microorganisms of Bacteroidetes kind that are beneficial for health. They reduce the development of the strains of Firmicutes kind that are conducive to obesity.

INFORMATION TECHNOLOGY

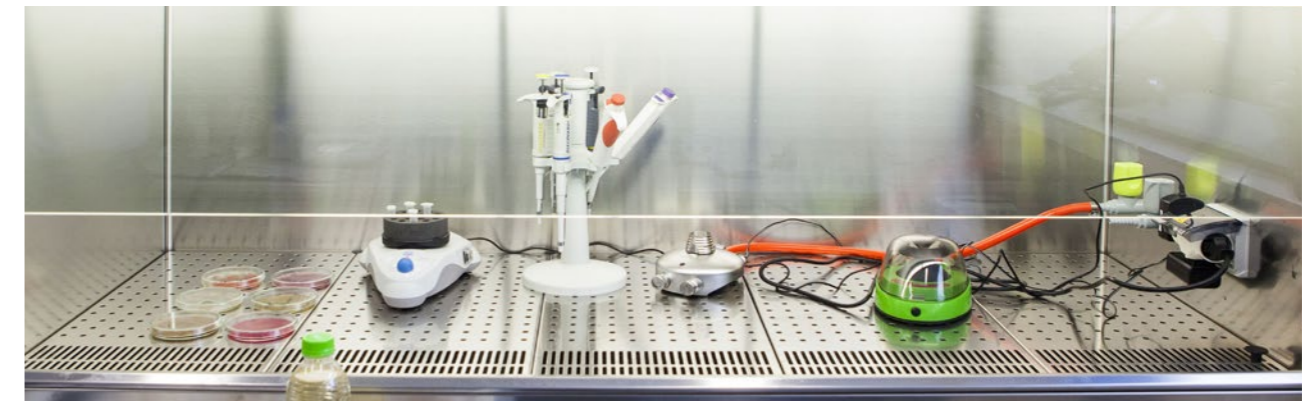
Model verification is an automatic research technique of properties of concurrent systems, such as digital systems, communication and cryptographic protocols, real time or multi-agent systems,

and others. This is the significant and current research topic studied in important and well-known foreign scientific centres. To automatically verify if the system fulfils a given property, you have

to create its model and describe it in an appropriate formal language. The objective of the project directed by Prof. Bożena Woźna-Szcześniak was to develop and implement new methods of model verification for the systems of real time and multi-agent ones. The properties of the studied systems were formulated in the existential extracts of various knowledge-temporal logics. The obtained results can effectively compete with the ones obtained by the researchers from the foreign centres. They can also have a variety of practical applications. The examples of such systems are: railway traffic control system, brake controllers, flight planning systems.

The purpose of the research realised by Agnieszka Zbrzezny M. A. within the framework of the Preludium project is the development of, basing

on SMT testers, the algorithms of a limited model verification (LMV) for the real time systems and multi-agent systems. Additionally, the comparison of the based on SAT testers, existing LMV algorithms for various Kripke's system and the interpreted systems with, the based on SMT testers, new LMV techniques for the same models. Automatic verification of real time systems through the analysis of their models is a very important research topic. The growing demand for testing the critical safety systems, such as time-dependent systems whose failure can cause dramatic consequences for people and equipment, is a strong motivation for conducting this research. These systems include surgical robots, automated nuclear reactor control systems, railway signalling, breaking systems, flight planning systems, carrier rockets range and many others.





BIOFEEDBACK

→ **BIOFEEDBACK, AN EXPERIMENTAL RESEARCH LABORATORY, WAS CREATED AS A SCIENTIFIC-RESEARCH CENTRE CATEGORIZED AS THE CENTRE OF EXCELLENCE FUNCTIONING AT THE JAN DŁUGOSZ UNIVERSITY IN CZĘSTOCHOWA.**

In the structure of the University, the laboratory performs the function of a second unit subordinated to the Dean of the Faculty of Mathematics and Natural Sciences, still, due to the categorization of the Centre, the unit enjoys a relative autonomy guaranteed by the contract. In this way, the Scientific-Research Centre of Excellence constitutes a kind of “laboratory without walls” – the institution bringing together outstanding authorities in a given field of knowledge. The purpose of the creation of the Centre is conducting the research on the human brain, in particular in the field of Biofeedback, and then sharing their results with the enterprises from the area of Silesian Voivodship. In addition, the Laboratory carries out activities dedicated to innovation and technology transfer concerning the production of e. g., new equipment, hardware and software that will better suit therapeutic tasks of Biofeedback. It is important to know that the Laboratory works according to the non-profit principle. Beneficiaries of the Laboratory services are not charged with any fees because the Laboratory team workers are the volunteers (non-remunerated). Thus, generally understood, it is the science and its transfer that is the target beneficiary of the Laboratory activity. In the period from March 1,

2013 (inauguration of the Laboratory) to December 31, 2016, the following tasks were realised:

- 100 EEG/QEEG examination for 700 people,
- a few thousand Biofeedback therapies/ trainings for over three hundred people,
- assistance to people with cerebral palsy, autism, impaired concentration, ADHD, children with Down syndrome, children diagnosed with dyslexia, aphasia,
- assistance to people with no neurological problem in the achievement of sports results progress,
- presentation of the achievements of the activities of the Centre to several hundred people (tours in organised groups),
- organisation of 3 conferences on the subject of neurofeedback, including co-organising the conference “Neurotechnologies in diagnosis and therapy”,
- initiation of such events in the Laboratory as: Open Days, Days of the Brain. Participation in the Open Days of European Funds, organisation of seminars and Biofeedback workshops,,
- publishing of a manual “Biofeedback. Innovations” under the guidance of Dr Paweł Borkowski; there is another position of the same author “The Atlas of EEG and QEEG” to be released soon.

HEALTH AND PHYSICAL CULTURE SCIENCES

At the Faculty of Pedagogy, a scientific research is conducted in the field of physical culture and health sciences, among others, within the scope of the project "Analysis of a diet applied in competitive sports and its relationship with sports level, somatic variables, physical efficiency, effort efficiency, acid-alkaline balance and water-electron economy of an organism" supervised by Prof. Wiesław Pilis.

The goal of the project was to describe the adaptive changes taking place in the sportsmen's organisms under the influence of the applied diet, specific training tasks, as well as the description of the effects of the application of a vegetarian diet in competitive sports. The first part of the project was accomplished with the participation of men representing 6 sports

disciplines and women practising 3 sports disciplines. In the second part of the research, the athletics runners and weights lifting competitors were involved.

The research studies have shown that the scope of post-training adaptive changes of the sportsmen's organisms was dependent on the size and nature of the applied training charges and the nutritional status of many sportsmen was insufficient. It has been stated that the applied vegetarian diet did not reduce the exercise capacity and training possibility of the sportsmen, but also increased the efficiency of cardiovascular system test of the examined. These facts entitle one to a conclusion that the use of a vegetarian diet has an essential significance, not only prophylactic, but also therapeutic one.

HISTORY, REGIONAL IDENTITIES

Collective memory, as a constitutive element of each collective identity is one of leading topics of world historical and social literature (national issues), but researched mostly on the basis of 19th and 20th centuries, and so without a proper time perspective. The aim of Prof. Janusz Spyra's project titled "Historiography and the shaping of regional identity in modern times, on example of Cieszyn Silesia in the 16th-19th century", financed by the National Science Centre was to examine the functioning of the mechanisms of collective memory in the contemporary times (17th century – beginning of the 20th cen-

ture). The choice of Cieszyn Silesia was motivated by the fact that it is a region mixed in terms of national, linguistic, religious and social issues, with a relatively big illiteracy of lower social strata. The local narrative sources date back to 17th century, including the ones, where one can find the references to the past of the region originating from all the social strata, including peasants. The monograph being the result of the grant, highlights the significance of the so called, memory guardians (chroniclers, diarists, peasant writers) in the process of creating the image of one's own past in modern times.

One of the projects of the National Science Centre realised by the Faculty was the project supervised by Prof. Robert Zawadzki, dedicated to the figure of a Renaissance humanist, Wawrzyniec Korwin (1465- 1527) from Środa Śląska. His writings, as well as his social and cultural activism have been, so far, almost completely unknown. The result of the project was to present the figure of a writer, pioneer of Polish-Latin literature, presentation of all of his works, never

published since the times of the Renaissance, highlighting the exceptional values of all the activities of this author who, not having any direct predecessors in Poland, created pioneer works in the field of geography, theory of literature, poetics, stylistics, Latin syntax, philosophy. In addition, due to the project, an image of cultural circles of Środa Śląska, Krakow and Wroclaw at the turn of the 15th and 16th centuries, in which Korwin lived and worked, was presented.





LITERATURE STUDIES, DRAMA AND THEATRE

→ DEVELOPS THE RESEARCH IN THE FIELD OF LIBERAL ARTS, A FEW REALISED PROJECTS WERE INCLUDED IN THE SCOPE OF THAT FIELD.

The project financed by the National Science Centre titled "Music in the Polish dramatic theatre till the year 1918" led by Prof. Anna Wypych-Gawrońska, constitutes the continuation and complementation of the research on the musicality of the opera, operetta and ballet theatres of the 19th and the beginning of the 20th century, perceived not only from the perspective of musical phenomena characteristic for dramatic theatres. The musical sensitivity of the audience of the previous eras and the demand for musical culture in different forms caused that dramatic theatre was very much musical in those times. The evidence of the presence of music in a dramatic theatre was the very structure of theatre institutions maintaining bigger, or smaller orchestras realising the repertoire of dramatic stages filled with drama and musical genres and works with musical illustrations. The confirmation of a musical character of theatrical institutions was also stated by the wide range of specializations of the stage performers, performing as both the actors in dramas, and at the same time vaudeville, comedy operas, as well as the pieces illustrated with songs artists. The awareness of the musical character of theatrical institutions of the previous centuries allows one to under-

stand better the aesthetic qualities characteristic for the theatre of various eras.

Dr Joanna Warońska conducts the research on the dramas written by the playwrights from the literary group of Skamander within the framework of the project financed by the National Science Centre and titled, "Comedy according to the Skamander group". The project objective is to recreate the genealogical consciousness of the Skamander group members on the basis of the theatrical reviews written by them and the analysis of the comedies written by Antoni Słonimski, Jan Lechoń, Jarosław Iwaszkiewicz, Maria Pawlikowska-Jasnorzewska, Magdalena Samozwaniec and Marian Hemar against the background of the comedy works of the interwar period. Skamander literary group is mainly associated with poetry. It was, after all, one of the most important literary groups of that time. Several years ago, Zdzisława Mokranowska described their works of prose, but their dramatic works still remain an unsearched area of their activity. Of the listed above authors, only Maria Pawlikowska-Jasnorzewska, Jarosław Iwaszkiewicz and Jan Lechoń were acknowledged with the anthologies of their works. The remaining texts can only be found on the pages of the press, also the pre-war ones and the director's copies in the archives of the Polish theatres in Poland and abroad. The research works and the publication prepared on their basis will fill in this gap and present a slightly different face of the Skamander group members.



PEDAGOGY. HISTORY OF EDUCATION

Two projects supervised by Dr Marzena Bogus were dedicated to historical legacies, legal regulations, vocational and union conditions, as well as the actions popularising education and culture among teachers from elementary schools in Cieszyn Silesia and Austrian Silesia till the World War II. The first project was titled, “Teachers of Cieszyn Silesia folk school against the background of local intelligentsia in the 19th and the beginning of the 20th century”. The measures for its realisation were granted by the Ministry of Science and Higher Education. The second project is titled “Teachers and their associations against the background of social discourse of the modernizing itself Europe (on example of Austrian Silesia)” and was financed by the National Science Centre. The research objective of the projects is related to the modern pedagogy and contemporary teachers who need the knowledge of the past of their profession in their work.

Within the framework of a sub-discipline history of education, the research concerning academic societies in Lviv (1867–1918), minority education on the Polish territories at the turn of the 19th

and 20th century, education in Częstochowa in the years 1918–1989 was realised. The key project for realisation of these scientific tasks was financed by NSC and included the studies of Jewish education in Lviv in the years 1772–1939. The research results will enrich the knowledge in the field of studies on the history of Jewish education in Poland and the development of education in Galicia under the partitions and in the interwar years. They are of a pioneer character as they have been based on the unknown archival materials. The reconstruction of the educational mainstreams – from traditional cheders, through assimilating public schools, to private schools of a Zionist trace – revealed main factors influencing the condition of Jewish education. Dealing with problems connected with the realisation of the educational objectives of the teachers’ circles and syllabuses of particular subjects, it has been shown that the Jews in Lviv made a significant contribution to the achievements of the Polish education at these territories at that time; the contribution that have not been noticed by the researchers yet. The studies also show the Polish traditions of multicultural education.

TUTORING

Science can be explained by means of discovering new, supplementing the state of insufficient knowledge, explaining phenomena, social issues, trends affecting a selected group of people by changing

their attitudes and behaviours. The faculty scholars of the Jan Długosz University are well acquainted with these topics, which can be reflected by numerous studies undertaken to develop the educational



tutoring – methods of individual teaching and learning, which according to Polish formula refers to dialogue relationships between a teacher-tutor and a pupil-protégée, becoming more and more appreciated alternative for the mass class education.

Almost from the very beginning of the introduction of tutoring in a Polish school (2009), it became a subject of scientific interests of Dr Adrianna Sarnat-Ciastko, a faculty member of the Faculty of Pedagogy. Her pioneer doctoral dissertation titled “Tutoring in the system of Polish education. Studies on the development of tutoring method with reference to transactional analysis” made it possible, for the first time, to define the scale, forms and procedures of the implementation of tutoring, its effectiveness, as well as the foreseen developmental paths, at the same time becoming a point of reference for the practitioner making use of this method.

Presently, since November 2016, along with the research team for the evaluation established within the walls of the University, Dr A. Sarnat-Ciastko evaluates the implementation of the all-Polish project financed from the public funds of the Ministry of National Education, “ To educate a wise man. Introduction of an educational and resocializing work model with the use of a school tutoring method, as a positive prevention of the problems in a Polish school”, which is realised by the Open Education Society. Within the framework of the activities lasting since December 2018, the team is to describe the quality of the realised instructive workshops and also the effects of the yearly implementation of the tutoring in 76 recruited schools, in which over 1, 000 teachers and 9, 000 pupils are to be surveyed by this method. The research work conducted by the Jan Długosz University in Częstochowa will allow the verification of the legitimacy of the implementation of tutoring on a wider scale.

FAMILY ASSISTANT

Family assistant is a new profession in Poland introduced in 2012 by an act of the law on supporting a family and the system of foster care for the work with the families facing difficulties in implementation of educational and upbringing functions in the place of their residence. Prof. Izabela Krasiejko, conducts pioneering studies concerning various aspects of the process of shap-

ing family assistance in Poland, among others, the role and predominant activities of a family assistant and the pedagogical aspects of their work. The studies conducted by Prof. Krasiejko prove that presently, there is a continuum of understanding of the role, tasks and ways of performing the job of a family assistant: from entering a close personal relationship and filling in the family func-

tion for the parents, by accompanying the family members in developing their parenting and life skills, to directive enforcement of tasks and their accountability and monitoring. From replacing, through supporting, to enforcing. The understanding of their roles by the assistants sometimes results from their personal beliefs and the job preparation, but sometimes from the fact what kind of understanding has been created by the workplace, which most often is a social help centre – bureaucratic institution and other partners in the work with families.

In addition, Prof. Izabela Krasiejko has researched a model of methodical activity of a family assistant,

which gives his work a supportive and preventive dimension and thus, distinguishes his proceedings from the actions of other social services. The author's concept of family assistant methodology is based on the work on resources, approach focused on solutions, motivating dialogue and reflexive practitioner's concept. The researcher described the stages of work of a family assistant and drew up documentation patterns. She prepared a monograph titled "Family assistantship – methodical and organizational recommendations" on the order of the Ministry of Family, Work and Social Policy, which contains the guidelines for the implementation of this form of family support for the communities throughout the country.

ECOLOGICAL GRAPHICS

The research concerning the merge of arts and science belongs to the leading research areas carried out at the Faculty of Arts. In the scope of fine arts and the framework of NSC project titled "Ecological techniques of graphic arts" directed by Prof. Katarzyna Winczek, the research on the use of non-toxic techniques and materials in a graphic workshop was realised. The aims of the experiment was to analyse technological possibilities and alternative artistic qualities and measures and to compare them to traditional techniques of gravure and letterpress printing. The undertaken research topic was introduced in a monograph dedicated to ecological techniques

of workshop graphics, the issues, so far, not presented in the Polish specialised literature.

The area of ecological graphics can be considered due to: the use of non-toxic resources and materials in the technology of the formation of a duplicated image; the method of work with the matrix; technical way of generating the image. In the gravure printing techniques the alternative coatings and media based on acrylics, harmless washes, salt solutions for pickling of the metals. Among the other methods of developing gravure matrixes, the process of electrolytic pickling of metals also found its use. A separate gro-

up was constituted by photopolymer techniques making use of the properties of photosensitive coatings in the process of creating an image. New, contemporary dimension of non-toxic graphics, due to its nu-

merous advantages, both in a scope of pro-ecological, pro-health solutions and its creative potential, deserves wider promotion and application in a modern workshop of a graphic artist.



STUDENT AND DOCTORAL SCIENTIFIC MOVEMENT

→ STUDENTS, DOCTORAL STUDENTS AND GRADUATES CAN DEVELOP THEIR SCIENTIFIC AND GENERAL INTERESTS ASSOCIATING IN SELF-GOVERNMENTS, SCIENTIFIC CLUBS AND OTHER FEDERATIONS.

Student organisations teach teamwork, as well as the implementation of practical projects. They allow you to gain experience and make contacts with the external institutions. Students organize numerous scientific conferences, realise their own research projects, meetings with experts and practitioners, social actions and cultural, artistic and sports events.

STUDENT AND DOCTORAL SCIENTIFIC CLUB OF THE FACULTY OF PHILOLOGY AND HISTORY

- SCIENTIFIC CLUB OF POLITOLOGISTS
- "ANAFORA" LITERARY CLUB
- DOCTORAL SCIENTIFIC CLUB OF LITERARY CRITICS
- NATIONAL SAFETY SCIENTIFIC CLUB
- ADMINISTRATIVE LAW COUNSELLING

→ SCIENTIFIC CLUB OF ADMINISTRATIVE AND LEGAL THOUGHT

→ STUDENT SCIENTIFIC CLUB OF PHILOSOPHERS

→ SCIENTIFIC CLUB OF CONSTITUTIONAL LAW

→ "ERANOS" SCIENTIFIC CLUB OF PHILOSOPHY, SOCIOLOGY, PSYCHOLOGY

→ "MEMENTO" SCIENTIFIC CLUB

→ SCIENTIFIC CLUBS OF THE FACULTY OF MATHEMATICS AND NATURAL SCIENCES, SECTIONS:

- ROBOTICS
- ACUSTICS
- MICROBIOLOGY
- CHEMISTRY

→ SCIENTIFIC CLUB OF YOUNG CAREER COUNSELLORS

→ STUDENT SCIENTIFIC CLUB ACTIVITY-CULTURE-HEALTH

→ STUDENT SCIENTIFIC CLUB OF SOCIAL WORK

→ "CREATIVE TEACHER" SCIENTIFIC CLUB

→ "KOSMODROM" STUDENT PEDAGOGICAL SCIENTIFIC CLUB

→ SCIENTIFIC CLUB OF THERAPISTS

→ STUDENT SCIENTIFIC CLUB OF PHYSIOTHERAPY

→ STUDENT SCIENTIFIC CLUB OF THE INSTITUTE OF MUSIC

→ "GILDIA" CLUB OF BOARD, FEATURE, TERRAINE AND STRATEGICAL GAMES

→ NON-SCIENTIFIC ARTISTIC CLUB – ŻALMA MALARZ/RZALAM AM LAŻ

→ INTER-FACULTY CLUB OF ASSISTANCE AND SUPPORT

→ STUDENT SCIENTIFIC CLUB OF PSYCHOLOGY AND CULTURE

The Jan Długosz University in Częstochowa is an excellent place for the development of both students and doctoral candidates. The University offers the possibility of education in five majors of the third degree studies. These are: history, literature studies, linguistics, chemistry and physics and soon, the range of directions of study will expand for philosophy and arts. The University offer addressed to our doctoral students concerns

not only the classes realised within the framework of the course of the studies, but also a wide spectrum of seminars, lectures, and laboratories that are complementary to the basic educational programme. Doctoral studies are also the chance to present the research results at numerous Polish and international scientific conferences organized by the University. It is worth noticing that the doctoral students can widen their intellectual horizons while working in numerous University scientific clubs. The choice of the Jan Długosz University as a career starting place is the most accurate one and allows the students to develop their various research interests in the most comfortable conditions. Numerous student and doctoral student conferences are organized by the University. Many of them have a long tradition, e. g., Inter-University Scientific Conference "Language-Theatre-Literature", which took place for the first time in 2004, with the time being, becoming a student-doctoral conference, or the Student Seminar "Forum of the Young of Science" organized by the Faculty of Mathematics and Natural Sciences. The scholarships of the Minister of Science and Higher Education for the outstanding educational, scientific, artistic, or sports results are granted to the best students. The students awarded with the scholarships of the Minister of Science and Higher Education are: Aleksandra Pięta (Physical Education), Klaudia Wójcik (National Safety), Krzysztof Szramiak (Physical Education) and Adrianna Zawadzka (Artistic Education in the range of Fine Arts).



DOCTORAL PROJECTS

→ THE SUCCESSES OF YOUNG SCIENTISTS, DOCTORAL CANDIDATES WHO DIRECT RESEARCH PROJECTS ASSIGNED BY EXTERNAL INSTITUTIONS ARE A SPECIAL REASON TO BE PROUD OF.

World industry strives for the reduction of pollution accompanying the processing of raw materials and production of the new ones. More and more attention is being paid to the application of clean, friendly to the environment technologies. Natural, cheap and biodegradable resources are in a high demand.

The project directed by Arkadiusz Żarski M. A. is a direct response to this demand and its main research objective is to obtain the material of improved mechanical properties, increased hydrophobicity, thermal stability and other properties favourable for the use in the production of biodegradable packaging based on potato starch esterified with unsaturated fatty acids in an enzymatically catalysed reaction in the presence of ionic liquid. The proposed solutions assume the application of rapeseed oil in the esterification of starch, rich in unsaturated fatty acids and the high-olein sunflower oil, which can allow the conduct of subsequent modifications and functionalising of esters through addition to double binding in the acyl chain of an acid. The scholars' attention has been attracted by researching physical properties of physical materials that may be used in the production of devices for ultra-fast recording

and reading out information. The process of creating these materials and the optimization of their properties in the desired direction is very often costly and sometimes ineffective without the theoretical consideration guidance. Therefore, the process of designing new materials and the initial stage of their synthesis should be completed, and perhaps even replaced, with the computer simulations of their structure and physical properties. The objective of the project directed by Tetiana Babuka M. A. is to create a calculation model used to examine the physical properties of semi-conductor chalcogenide materials of Xn (PY3) type based on the methods of quantum chemistry. The model will be generalized to a wider range of semiconductor functional materials of strongly correlated electrons. This will allow to prognosticate about the future production of the advanced materials used in e. g., FRAM memories.

Photocatalysis is a quickly expanding field of science. Photocatalysts, under the influence of the incident electromagnetic radiation, decompose the pollution in the water or the cleaned surfaces to little, non-toxic molecules, such as carbon dioxide or water. This results in the elimination of toxic substances without the production of life-threatening compounds. The semiconductor material, sensitive to sunlight in the visible light range, is bismuth ortovanadate (BiVO₄). Joining the organic molecules to its surface can further improve its photocatalytic properties. Karolina Ordon's M. A. project focuses on the synthesis, structural, electron and optical studies of mesoporous BiVO₄ and the research of the impact of or-

ganic dyes joined to BiVO₄ on the photocatalytic properties of the obtained hybrid material. The studies are to select proper organic molecules improving the photocatalytic efficiency of BiVO₄/organic dye hybrid system and the recognition of the mechanism of photocatalysis taking place in these materials. The project supervised by Prof. Piotr Bałczewski also realised the concept of the basic research in the field

of material chemistry and organic synthesis dealing with the finding of active herbicides of quaternary ammonium salts group, which contain in their chemical structure a different sequence of heteroatoms (N, S, O, halogen) than glyphosate, and the so far applied herbicides to which the plants have developed partial resistance, and yet they would not be P-modified aminoacids.



SCHOLARSHIP HOLDERS, DOCTORAL CANDIDATES AND SCHOLARS

The University can be proud of its outstanding scholars and artists – scholarship holders of numerous institutions. In the field of arts, in the discipline of instrumental studies, the work of Dr Ewa Jabłczyńska has to be distinguished. She mainly deals with the adaptive, performing and interpretative issues of works composed on the classical guitar, but also with the subject matter of a transcription process of a musical work. In the scope of Dr Jabłczyńska's work and activities, numerous elaborations of piano and orchestra works were accomplished that allowed to broaden the concert repertoire for the guitar duo and were presented at International Guitar Festivals in Poland and abroad (among other, the United States, China, Mexico, France, Germany, Slovakia, Scotland, Great Britain). The CD, "Kupiński Guitar Duo: Ewa Jabłczyńska & Dariusz Kupiński" released in 2016 by QBK Records reflects the effect of those studies.

Scholarships funded by European and world institutions are granted to the scholars representing the social sciences. Dr Dorota Ortenburger completed the apprenticeship funded by European Federation of IASP Chapters EFIC in 2013. The scholarship allowed her to graduate from the European Pain School, Klagenfurt (2013) Medical Chamber of Carinthia (Austria) and obtaining the Certificate of European Federation of IASP Chapters, European Accreditation Council for Continuing Medical Education, 24 European CME credits EACMEC. In 2008, the grant awarded by the International Association for the Study of Pain, USA made it possible to present a research work titled, "Personality predictors in depression at chronic musculoskeletal pain patients" (12th World Congress

on Pain, Glasgow, UK). Dr Dominik Szczeniak representing the science of physics obtained his doctoral degree at the University of Le Mans in France within the framework of the scholarship of the French government (bourses du gouvernement français) for the foreigners under the supervision of Prof. Antoine Khater and Prof. Zygmunt Bąk. The subject matter of his research concerned the theoretical description of the phenomenon of quantum electron transportation in nano-systems and the phenomenon of superconductivity in the carbon and hydrogen system. In addition, the faculty member of Jan Długosz University completed a 2-year-long post-doctoral internship in the Qatar Scientific Institute of Energy and Environment in the team led by Prof. Sabra Kais conducting the studies on the low-dimensional systems for the photovoltaic uses. Dr Dominik Szczeniak is the author of almost 30 publications from the Philadelphia list and many other works.

In the academic year 2015/2016, a doctoral student of the Faculty of Mathematics and Natural Sciences, Katarzyna Ordon, was granted the scholarship of the French government, the Eiffel Excellent Grant. This is one of the most prestigious French scholarships. In the academic year 2015/2016, it was granted to only 45 people from all over the world and only to two Poles. This scholarship allows you to stay and conduct scientific research in a centre that applies for the scholarship along with the fellow applicant. Karolina Ordon conducted the scientific research at the Université du Maine in Le Mans in France. The studies concerning the project caused a significant progress in the accomplishing of her doctoral dissertation and enabled a significant development in the experimental field.



REGULAR CONFERENCES, SCIENTIFIC AND ARTISITIC SYMPOSIA

→ THE UNITS OF THE JAN DŁUGOSZ UNIVERSITY ORGANIZE ABOUT 40 SCIENTIFIC CONFERENCES YEARLY, MOST OF WHICH OF AN INTERNATIONAL CHARACTER AND PARTICIPATED BY GUEST SPEAKERS FROM FOREIGN SCIENTIFIC AND ARTISITIC CENTRES.

- International Symposium on Selected Problems of Chemistry of Acyclic and Cyclic Heterorganic Compounds
- International Scientific Conference: Safety Engineering and Civilization Threats
- Student Seminar "Young Science Forum"
- Scientific Session "Chemistry and Life"

Frequently organized conferences have a cyclical character and some of them have a 20-year-long tradition. Among many conferences that have been written in the scientific and artistic calendar of the University events, one should notice the cyclical ones:

→ FACULTY OF PHILOLOGY AND HISTORY:

- Częstochowa Administrative and Legal Symposia
- Scientific conference: Language Functioning Mechanisms
- Scientific conference: An Intellectual at the Province
- Scientific conference: Reading of the Interwar period,
- Inter-university Student Scientific Conference: Language-Theatre-Literature
- Conference: Applications of Algebra in Logic

→ FACULTY OF MATHEMATICS AND NATURAL SCIENCES:

- International Seminar on Physics and Chemistry of Solids and Advanced Materials

→ FACULTY OF PEDAGOGY:

- Education – between tradition and nowadays.
- Contemporary challenges of social policy and social work.
- World Congress on Health and Martial Arts in an Interdisciplinary Approach
- Career Consultancy in the process of transition from education onto a job market.
- Contemporary challenges against elementary education.

→ FACULTY OF ARTS:

- International Artistic Symposium of the cycle: Nature – Record – Work of Art
- International Confrontations of the Master Workshops of Artistic Schools
- Symposium on Photography Didactics
- Conference: Creativity and Musical Culture of the Slavic Countries

ACADEMIC JOURNALS

→ JAN DŁUGOSZ UNIVERSITY IN CZĘSTOCHOWA IS THE PUBLISHER OF 20 ACADEMIC JOURNALS LISTED IN THE REGISTER OF THE MINISTRY OF SCIENCE AND HIGHER EDUCATION CREDITED ON THE LIST B

The number of credits obtained by the University periodicals systematically increases as a result of ministerial evaluation – in 2016, it amounted to 2–8 credits. The highest credited ones are: “Scientific Papers of the Jan Długosz University in Częstochowa. Pedagogy”, “Scientific Papers of the Jan Długosz University in Częstochowa. Pragmata tes Oikonomias”, “Scientific Papers of the Jan Długosz University in Częstochowa. Physical Culture”. The papers published in the journals represent various fields of science: humanities (in particular: philosophy, history, linguistics, literature studies, also foreign philologies), social studies (in particular: political sciences, pedagogy) economic, legal, mathematical, physical, chemical, biological sciences (in particular: technique, information technology, safety engineering), physical culture science and the disciplines of musical, photographic and fine arts.

- SCIENTIFIC PAPERS OF THE JAN DŁUGOSZ UNIVERSITY IN CZĘSTOCHOWA. MUSICAL EDUCATION. (Editor in Chief: Marta Popowska)
- SCIENTIFIC PAPERS OF THE JAN DŁUGOSZ UNIVERSITY IN CZĘSTOCHOWA. PHOTOGRAPHY. (Editor in Chief: Jerzy Piwowarski)
- EDUCATIONAL TRANSACTIONAL ANALYSIS (Editor in Chief: Jarosław Jagieła)
- SCIENTIFIC PAPERS OF THE JAN DŁUGOSZ UNIVERSITY IN CZĘSTOCHOWA. PHILOSOPHY. (Editor in Chief: Ryszard Miszczyński)
- SCIENTIFIC BULLETIN OF THE INSTITUTE OF ADMINISTRATION OF THE JAN DŁUGOSZ UNIVERSITY IN CZĘSTOCHOWA. GUBERNACULUM ET ADMINISTRATIO (Editor in Chief: Paweł Wolnicki)
- IRYDION. LITERATURE – THEATRE – CULTURE (Editor in Chief: Adam Regiewicz)
- SCIENTIFIC PAPERS OF THE JAN DŁUGOSZ UNIVERSITY IN CZĘSTOCHOWA. LINGUISTICS. (Editor in Chief: Dorota Suska)

- SCIENTIFIC PAPERS OF THE JAN DŁUGOSZ UNIVERSITY IN CZĘSTOCHOWA. PHYSICAL CULTURE (Editor in Chief: Eligiusz Małolepszy)
- SCIENTIFIC ISSUES OF JAN DŁUGOSZ UNIVERSITY IN CZĘSTOCHOWA. MATHEMATICS (Editor in Chief: Joanna Grygiel)
- SCIENTIFIC PAPERS OF THE JAN DŁUGOSZ UNIVERSITY IN CZĘSTOCHOWA. PEDAGOGY. (Editor in Chief: Kazimierz Rędziński)
- BASICS OF EDUCATION (Editor in Chief: Małgorzata Piasecka)
- SCIENTIFIC PAPERS OF THE JAN DŁUGOSZ UNIVERSITY IN CZĘSTOCHOWA. PRAGMATICA TES OIKONOMIAS. (Editor in Chief: Paulina Ucieklak-Jeż)
- SCIENTIFIC PAPERS OF THE JAN DŁUGOSZ UNIVERSITY IN CZĘSTOCHOWA. RES POLITICAE. (Editor in Chief: Henryk Cwięk)
- SCIENTIFIC PAPERS OF THE JAN DŁUGOSZ UNIVERSITY IN CZĘSTOCHOWA. POLISH-UKRAINIAN ANNUAL. (Editor in Chief: Kazimierz Rędziński)

- SCIENTIFIC PAPERS OF THE JAN DŁUGOSZ UNIVERSITY IN CZĘSTOCHOWA. NEOPHILOLOGICAL STUDIES. (Editor in Chief: Przemysław Sznurkowski)
- SCIENTIFIC PAPERS OF THE JAN DŁUGOSZ UNIVERSITY IN CZĘSTOCHOWA. TECHNIQUE, INFORMATION TECHNOLOGY, SAFETY ENGINEERING. (Editor in Chief: Marcin Sosnowski)
- SCIENTIFIC PAPERS OF THE JAN DŁUGOSZ UNIVERSITY IN CZĘSTOCHOWA. HISTORICAL BULLETINS. (Editor in Chief: Andrzej Stroynowski)
- PHYSICAL ACTIVITY REVIEW (e-journal, Editor in Chief: Jacek Wąsik)
- CHEMISTRY. ENVIRONMENT. BIOTECHNOLOGY (e-journal, Editor in Chief: Piotr Bałczewski)
- TRANSFER. RECEPTION STUDIES (Editors in Chief: Anna Majkiewicz, Joanna Ławnikowska-Koper)



COOPERATION

CONSORTIA

→ INCUBATOR OF INNOVATION +

The Centre of Transfer of Knowledge and Innovation in the Field of Science and Arts functioning at the Jan Długosz University in Częstochowa carries out a project “Incubator of Innovation+” under the supervision of Eng. Krzysztof Maternicki M. A. It is realised in cooperation with the Lodz University of Technology and the Centre of Technology Transfer of Lodz University of Technology Co. Ltd. within the framework of the consortium established between the universities. The project aims at the strengthening of the cooperation between the academic circles and economic surroundings. Its objective is to support the projects concerning the commercialization of the results of scientific research and developmental works. The project also concerns the issues concerning the management of the technology portfolio, conduct of the pre-developmental works, and the activities of the innovation brokers. The authors of the project desire to implement the verified procedures and good commercialization practices, which will contribute to the increase of competitiveness of the solutions created at the University and will bring effects also after the project is brought to an end. The project “Incubator of Innovation+” was selected by means of a contest opened by the Ministry of Science and Higher Education and subsidized by the Operational Programme Intelligent Development for the years 2014–2020 of the European Funds.

→ TO EDUCATE A WISE MAN

The research on the development of tutoring carried out at the Jan Długosz University in Częstochowa contributed to establishing relevant relationships with the external institutions promoting this method. The Open Education Society appeared to be here of a key importance, under the wings of which, the well-known in Poland, Author Artistic and Academic Secondary Schools ALA from Wrocław and Częstochowa (the school mentored by JDU), as well as the Institute of School Tutoring are functioning. In 2016, the activities of IST resulted in obtaining 4, 6 million zlotys from the Ministry of National Education for the implementation of the project “To educate a wise man”. The introduction of the educational and resocializing model of work with the application of school tutoring as positive means of prevention of Polish schools problems”. To implement this project (which is targeted at 76 school, over 1, 000 teachers and 9, 000 pupils) Open Education Society, within the framework of consortium contract, invited the Jan Długosz University in Częstochowa (as the only such a university in Poland) to be responsible for the quality of the all-Polish information conferences realised for the opening and closing of the project, publishing of the two reviewed post-project publications (a monograph describing the effects of the realisation of the project and a manual for a school tutor), as well as the works of the research team for the evaluation of the project.



ENTREPRENEURS

→ **COLLABORATION BETWEEN SCIENCE AND BUSINESS CONSTITUTES A FUNDAMENTAL ISSUE IN THE ECONOMIC DEVELOPMENT OF POLAND.**

The Jan Długosz University in Częstochowa has been developing this collaboration in many aspects ranging from the joint ventures taken at the University level with institutions and entrepreneurs' associations (among others, Regional Chamber of Commerce and Industry, Lewiatan-Employers' Association, Regional Development Agency) to the work of individual units realised thanks to the external stakeholders functioning at the faculties boards. The Jan Długosz University establishes this cooperation with the employers. ZF TRW, which has its branches in the several countries of the world, is an important company and one of the biggest employers in the Częstochowa region, where safety belts and airbags are produced. Besides two manufacturing facilities, there are also four separate business units: Financial Service Centre, Engineering Centre, IT Centre and the Purchasing Office. The company employs specialists representing various specialities, among others, engineers testing and implementing modern solutions, IT and accountancy specialists. Jan Długosz University commenced a very special collaboration with the Financial Services Centre domiciled at 63 Legionów St., which runs the financial and accounting services of the European fac-

ories of the organization and employs mainly the candidates with a communicative command of foreign languages. The candidates are expected to be able to think analytically and be motivated to take a job in the corporate accountancy. The offers of internships and employment are addressed, among others, to the students and graduates of the Jan Długosz University. For the tightening of the collaboration between ZF TRW company and JDU, a contest for the students of the University was carried out to choose an ambassador, whose task will be the promotion of the ZF TRW employment offer among the students of the Jan Długosz University in Częstochowa. To facilitate job applications and an easier start to a career, the University launched free courses of, among others, Slovak, Czech, Russian, Ukrainian, Spanish, Portuguese and Italian languages. In this way, the University gives its students a great opportunity to acquire the education expected of them by ZF TRW and other employers in the region. Presently, one of the basic tools initiating and supporting the collaboration between science and business are the domestic and EU programmes of financing, whose key objective is to create favourable conditions for the increase of the competitiveness of the Polish economy based on the innovative enterprises, in cooperation with the professional scientific partners. One of the horizontal programmes of supporting the science sector and the sector of enterprises in the scope of the applied research was the national Applied Research Programme. Prof. J. Kapuśniak was the mem-

ber of the project's Directing Committee titled "Modification and Functionalization of biopolymer resources originating from grain and mill processing for the development of biomaterials of a new generation" (acronym SKROBI-OMAT), which was financed from the Applied Research Programme. The project consortium panel consisted of three scientific units: the Institute of Biopolymers and Chemical Fibres of the Jan Długosz University in Częstochowa, the Research Institute of Packaging COBRO in Warsaw and also the Polish enterprise – Lubella, Co. Ltd, which in 2003 entered the MASPEX Group Wadowice, a leader at the grocery products market in Poland. Besides the aforementioned collaborations, the University cooperates with numerous enterprises in Poland and abroad. E. g., the Faculty of Mathematics and Natural Sciences cooperates with CSF. Cooper Stand-

ard Co. Ltd. (artificial materials for the production of automotive parts), Manuli Hydraulics Manufacturing (artificial materials and composite materials), Smart Nanotechnologies Co. Ltd. (nanomaterials), Lubella Co. Ltd. (biopolymers), Maspex Group Wadowice (functional flours), Tymbark – MWS Co. Ltd. (food enriched with bioactive substances), Beta Bio Technology Co. Ltd. (beta-glucan), KUBARA Co. (functional and ecological food), Dynamax Co. Ltd. (nanotechnology and nanomaterials), Chemical Works "Rudniki" (chemical, mineral products), ERG S. A. (artificial and biodegradable materials), "Futurum" Co. Ltd. (medical products, dietary supplements, foods for special purpose), Water and Sewerage Works of Częstochowa District (chemical and toxic analyses), CEMEX Polska Co. Ltd. (geochemical, ecological and innovative methods of recultivation of closed mining excavation sites).



PROJECTS IN THE FIELD OF INTERNATIONALISATION

Faculty of Pedagogy and History was an organizer of eight editions of the Summer School of Polish Language and Culture for Foreigners entirely funded by the Ministry of Science and Higher Education. Also in 2017, the financing of the next School was granted, as the result of a carried out competition. All the editions were directed by Dr Krzysztof Czajkowski and were attended by students from 25 European countries and Egypt. Summer Schools allow their participants to become familiar with the cultural heritage of our city and region and Jasna Góra monastery serves as an example to make them acquainted with the most important events from the history of the nation. The organizers make the participants acquainted with the attractions of the city and its surroundings by preparing a schedule of attractive trips, e. g., the Eagle Nest Trail, Jan Długosz Trail. The regional and local dimension allows the participants to look closer at the Polish traditions and culture, thus, enriching their so far experience and knowledge of our country.

The openness of educational resources is a leading topic of the international project of the EU, "LangOER – Enhancing teaching and learning of less-used languages through Open Educational Resources", realised by the Faculty of Philology and History from the European Commission programme. The three year-long project, just completed, concerned the support of the development of regional and less commonly taught languages by involving the teachers in creating and publishing open licence educational materials. The University partners in this project were the educators and scholars from Holland, Sweden, Greece, Norway, Lithuania, Belgium, Latvia. Open

Education and Open Educational Resources are relatively new notions in the educational space, however, they have already become customary in it. The idea of knowledge as a public good is treated in the context of a chance to compensate for differences in access to education. It particularly concerns the sectors of higher education, continuing education of teachers and various forms of teaching adults. The openness of knowledge and resources is also of importance in the enterprises: the employees should know how to use the materials and resources in a legal way. (e. g. on-line), what applications are allowed by the licenses, within which these materials were published. In the framework of this project, Dr Małgorzata Kurek and Anna Skowron M. A. from the Institute of Foreign Philologies created a set of training materials, which after having been tested in the European pilotage trainings in an e-learning mode, were adapted for the needs of teachers from the partner countries. Overall, within the framework of LangOER project about 200 European teachers were trained, and the participants of the trainings created over 100 different educational resources, which constituted a great contribution to the European Schoolnet educational base.

Dr. Joanna Górna from the Faculty of Pedagogy realises the project titled "Innovative Counselling to Promote the Participation of People 50+ on the Labour Market and in Societal Life (InCounselling 50+)". This venture is subsidized by the Erasmus+ European Programme. Within the framework of this project the concepts of innovative career counselling for people 50+ will be tested and implemented. The projects promotes collaboration between the research sector, busi-

ness and public employment services and in this way, it anchors the education in the triangle of knowledge giving the solid basis to enforce the key competence of the people dealing with counselling and assistance to people at the age of 50+. Partners from Germany, Croatia and Lithuania participate in this project.

Bilateral cooperation between Hochschule der Bundesagentur für Arbeit (HDBA) and our University develops dynamically. Within the framework of this cooperation 5 research projects have already been realised (financed by the German side) and 5 European projects with the participation of other partners from Europe (Brain Drain-Brain Gain, Praelab, NICE

1 and NICE 2). Presently, the subsequent project is being realised – “InCounselling 50+“. In the scope of career counselling, two international conferences have been organized, and double “Case Management“ studies of the first degree have been opened, and a post-graduation studies syllabus has been developed. Within the framework of the Erasmus programme and study visits, the scholars and students of both schools become familiar with the specific angle of education at Polish and German universities and conduct a joint research. The project is realised by the team composed of: Prof. Bernd Joachim Ertelt, Dr Joanna Górna, Dr Mariola Mirowska, Grzegorz Sikorski M. A..



PHILOSOPHY AT SCHOOLS

→ PE (FRANCE, BRITAIN, GERMANY, OR ITALY), PHILOSOPHY IS A COMPULSORY SUBJECT OF SCHOOL LEAVING EXAMS. THIS ARGUMENT SHOULD JUSTIFY THE GREATER PRESENCE OF PHILOSOPHY IN POLISH SCHOOL.

Bearing this fact in mind, the Jan Długosz University has made some effort (together with 21 institutions of higher education) and obtained co-financing of their proprietary project titled “Development of philosophical competences”, organized by the National Centre of Research and Development within the framework of the contest “Philosophical Education” (Operational Programme Knowledge-Education-Development 2014–2020). The project is directed by Prof. Maciej Woźniczka. Within the framework of this project, academic teachers of the Institute of Philosophy of the Jan Długosz Academy (consciously alluding to the educational ideas of dr Władysław Biegański, associated with Częstochowa) will assist 6 upper-secondary schools in the Częstochowa region in developing the skills of correct argumentation, individual and critical

thinking, as well as the skills related to logic and heuristics.

The project titled “Development of philosophical competences” is written into a wider research area of the Faculty of Philology and History concerning the increase of competence and functional qualifications dedicated to a human being as an active participant of contemporary social changes. The scientific strategy of the Faculty assumes that the leading research area should concern the problems connected with the analysis of the reality (historical and social factor), language (cognitive factor), memory (community and cultural factor). Philosophical interpretation of those issues constitute the essence of the specific topics falling within the scope of the realised project. It will be realised in the frameworks of the following modules: the basics of understanding the world, philosophical questions, with philosophy at school and life, around the truth and around the beauty, intelligent and critical conversation, philosophy as studying the Great Books. Factual contents will be presented with the use of the latest methods of philosophical education: activating methods (various forms of discussion, brainstorm, mind maps, drama, situational method, didactic games) and the use of Lipman’s method of philosophical investigation.

ACADEMY OF THE YOUNG INVENTORS

The Academy of the Young Inventors is the outcome of a social initiative of the faculty team of the Bio-

medical Sciences Unit of the Jan Długosz University in Częstochowa. Presently, other teams repre-



senting the University got involved in this activity. The AYI was commenced in October, 2015 and immediately faced the demands of the Częstochowa region.

The classes organized by the Academy are attended by the pupils of the lower-secondary schools and the final classes of primary schools. The Academy aims at independent, creative thinking and creating and developing future intellectual elite. The originators of the project are open to the cooperation with the similar initiatives in Poland. They cooperate with the authorities of Częstochowa, Częstochowa Branch of the Polish Chemical Society, and authorities of the University. AYI meetings are held every second week, on Sunday afternoons. The classes start with a lecture substantively introducing the participants to the selected problem matter. The school break is an important point of the programme. This

is the time for the exchange of ideas and deepening of friendships. Workshops and laboratory classes that bring young people closer to the discussed issues constitute another point of the programme. The meetings are illustrated with simple demonstrations, their aim is to seek the solutions to practical and scientific problems. Finally, the interested people can take part in the discussion titled "About an invention while having some tea" with Prof. Janusz Boratyński. Participation is free of charge – this is an action against social exclusion, that is why the originators of the Academy are especially sensitive to the youth of a low material status, including foster children. During the classes, the own solutions are being developed. One of the "invention" is the unique way of wearing reflection lights. The information concerning this issue was published on the Road Traffic Office website page of the Police Headquarters.

UNIVERSITY OF THE THIRD AGE

The University of the Third Age at the Jan Długosz University in Częstochowa has been educating the senior citizens for 22 years by organizing lectures and educational classes for its listeners. It also organizes all kinds of integration and special occasion meetings, as well as tourist outings. UTA at the Jan Długosz University in Częstochowa cooperates with the city authorities at organizing various events for the senior citizens of Częstochowa, such as, Senioriada, Senior Citizen Days, Częstochowa Days. It issues a bulletin titled, "Our University" presenting the achievements and activities of the University of the Third Age and its li-

steners. The listeners of the UTA take active part in the Congress "Senior Citizen". UTA was a co-organizer of the International Scientific Conference "Career Counselling 50+", which took place in 2014. It was awarded with the distinctions: "Częstochowskie Brand Mark", "Senior Citizen Friendly Place" and many diplomas and distinctions on behalf of the senior community. UTA cooperates with non-governmental organizations, the hospice "Dar Serca" and other UTAs in the region. Presently, the number of listeners of UTA at the Jan Długosz University in Częstochowa amounts to almost 800 people.

ENVIRONMENT

→ AN IMPORTANT ELEMENT OF FUNCTIONING OF EACH ACADEMIC CENTRE IS ITS INFLUENCE ON THE SOCIETY AND ENVIRONMENT IN WHICH IT EXISTS.

The Jan Długosz University has the reasons to put itself in the role of leader as an organizer and animator of numerous cultural, sport, scientific ventures popularizing the knowledge among children and adults, as well as the youngest inhabitants of the region.

The University conducts a very active cooperation with many schools of various educational degrees. Popularizing the knowledge, the University fellows reach the schools of Częstochowa region. That is why a wide range of topics has been developed, which according to the interests and demands, can be realised at school, or at the University. Popularizing of mathematics can be a good example here. The rich offer includes the lectures of the University scholars within the framework of the action "University in the Library", carried out in the scope of almost 10 cycles, together with the Library of Władysław Biegański's name.

In the spirit of the idea 3xL (Life-Long Learning), at the Institute of Pre-School and School Education of the Faculty of Pedagogy, from the initiative of Prof. Wiga Bednarkowa, the Academy of a Child and Parent was founded, in this way expanding the group of beneficiaries of educational offer of the University with the youngest audience – children. ACP, with

the help of learning and fun, helps to develop children's curiosity, interest, intellect and their creative potential. Classes taught at ACP also equip parents with modern knowledge of child's development, helping them to cope with the care and upbringing of their children in the times of digital civilization.

The youth with the Asperger syndrome and their parents are the beneficiaries of the "Friends' Club". The activities for the children and their parents are being conducted simultaneously in different classrooms. These classes meet the demands of a local community and their main objective is the social integration of the youth and children (on the basis of the rule: we, the Aspi, stay together) and the assistance to parents in searching for the solutions of the problems of the children with the spectrum of autism.

University students are actively involved in volunteering, within the framework of which, they carry out various activities in cooperation with the local community, using their knowledge and gaining useful experience. One of such projects is the "PROJECTOR – student volunteer service" being the Polish programme of the Polish-American Liberty Foundation realised by the Educational Foundation of Entrepreneurship. Its main objective is to promote the volunteer service as an effective method of building social capital and conditions for the systematic development of volunteering in Poland. Within the framework of the project, the students carry out the classes of various character, such as, artistic, sports, linguistic, psychological, pedagogical

and others, reaching children and youth and providing them with knowledge and positive examples, thus, encouraging them to follow the path of knowledge and development. They have an opportunity to define the mission with which they want to reach the participants at the same time being factually supported by the University and the Foundation.

The Society of Friends and Graduates of the Jan Długosz University in Częstochowa has been active since 2010. It was founded with the intention of integrating the graduates and the friends of the University. The main idea joining the members of the Society is the common desire to strengthen social ties and to realize the goals written in the society status and popularising and strengthening the attitudes converging with

the University mission, which, in its 50-year-long history, educated over 60 thousands of graduates. Piotr Urbanik M. A, a graduate of the University (major: history and administration) performs the role of the chairman of this Society.

The University runs a fruitful cooperation with the institutions of culture. Częstochowa's galleries present the photographic, graphic and painting exhibitions of the students, scholars and graduates of the University. The academic community plays an important role in the life of the local theatres and philharmonic institute. It does not limit itself to the role of an audience – the scholars and students play the roles of soloists, virtuosi, actors, they also participate in various artistic ventures, they assist and advise with their organizing.





DEVELOPMENT

MODERN DIDACTICS

The academy is successful in obtaining funds for didactic projects. At the Faculty of Mathematics and Natural Sciences, a project titled "Take the chance – compensatory classes, courses, training and internships are the key to success in the labour market" was implemented and addressed to students starting their studies in the field of sciences and engineering. The program engaged 450 students of the Faculty. During the first year of the pro-

ject, the students participated in compensatory classes in mathematics and physics. In the second year, students were supported by the Academic Careers Office. In the third – the best students who participated in the optional courses in mathematics, as well as in physics, and those who were actively involved in the activities carried out by the Academic Careers Office, took part in three-month-long professional internships.





TUTORING SYSTEM IN DIDACTICS

→ TUTORING BECAME A PART OF THE JAN DŁUGOSZ UNIVERSITY IN CZĘSTOCHOWA ACADEMIC PROGRAMME, NOT ONLY AS AN IMPORTANT RESEARCH SUBJECT, BUT ALSO AS AN INSPIRATION FOR LECTURERS, THUS BECOMING THE UNIVERSITY'S HALLMARK.

Since the beginning of the academic year 2016/2017, it has become a teaching method available to all the students starting from the second semester of the first year of undergraduate and graduate studies. Such an action was preceded by the appointment of the Proxy to the Rector of the Jan Długosz University in Częstochowa for tutoring, as well as by the recruitment of academic teachers willing to use this method. They were invited to participate in a special, modern in its formula, 60-hour-long tuition training course, held under the substantive care of the Open Education Society. The tutoring formula implement-

ed at the Jan Długosz University in Częstochowa is not obligatory for students, but allows the willing ones to experience exceptional cooperation with a tutor-master-companion, which can become a catalyst for their personal development. A student, within a chosen elective course, may nominate a tutor with whom he or she wishes to work individually in a given semester. Mutual interdisciplinary tutoring may, depending on the needs and readiness of the person, go towards the academic (academic tutoring) or personal (development tutoring) development. The tutoring system, which gives the space to get acquainted with the student, to recognise his or her strengths and talents, to build relationships based on mutual respect and trust, empowers them to strengthen their sense of competence, their critical thinking skills and rhetorical skills, but also helps them in creating a vision of their own careers. It can contribute to raising satisfaction and level of motivation to act, becoming a source of inspiration for both the student and the academic teacher, thereby enhancing the creative potential of the University itself.

ON-LINE LEARNING

E-learning, otherwise called distance learning, is a form of learning that takes place at a distance. It is a modern way of transferring the knowledge, allowing for carrying out courses, trainings or even studies without the presence of students and lecturers in the lecture room, because the classes take

place via the Internet. E-learning classes can take many forms: e-courses supporting and even extending traditional classes. Classes in the "mixed" mode, so-called "blended learning," in which some traditional classes are effectively replaced by remote work. Finally, classes which are 100% onli-

ne on the e-learning platform, in a remote mode. Currently, with the support of the Distance Learning Centre – the unit responsible for the implementation of e-learning at the Jan Długosz University, lecturers improve their skills in designing and conducting e-learning classes. They participate in on-line trainings, thoroughly exploring the environment in which they will “in a short while”

teach, and in stationary trainings to improve their teaching skills and tools on the University’s e-learning platform. Many lecturers of the Jan Długosz University in Częstochowa use e-learning to support, or extend their lectures. In the next semester, the first 100% eLearning courses will begin, among the others, at the Faculty of Pedagogy and the Faculty of Philology and History.

FOREIGN LANGUAGE TEACHING

Since October, 2016, specifically for the students and graduates of the University, The Centre for Innovation and Transfer of Knowledge in the Area of Science and Arts of the Jan Długosz University in Częstochowa has been running free of charge courses of foreign languages, including the languages that are very often absent in the offer of language schools in Częstochowa. The offer includes language classes in: Slovak, Czech, Russian, Ukrainian, Spanish, Portuguese or Italian. In addition, the English, German, French and sign language classes can be attended by anyone, however, those are not free of charge. The organizers also remember about the youngest. Especially for them, in 2015, an English language course was created for children from 3 to 7 years old. Classes combine traditional elements of course book work and modern technology. In June, 2016, all participants completed the course with honours, received diplomas, and thus entered the history of the Jan Długosz University in Często-

chowa as the first and youngest graduates of this University.

In December, 2016, thanks to the support of the authorities of the University and the Częstochowa City Hall, the Centre for Transfer of Knowledge and Innovation in the Area of Science and Art of the Jan Długosz University in Częstochowa transformed conventional lecture rooms into real digital language laboratories. Modern language labs are the future of language learning. It is also an excellent solution that supports studying at the University and fulfils its role in the case of groups of different sizes.

In order to reduce the technological dissonance between academic life and modern world life, and to provide students with different learning styles and the opportunity to learn in their preferred way, the Centre has enabled teachers to conduct classes

with the use of an interactive whiteboard. An additional advantage is the possibility to meet the native speakers of Brazilian, Slovak, Russian or Ukrainian language. The Centre cooperates with teachers from the countries whose languages are being

taught. This is important because the employers are increasingly demanding the knowledge of several languages, and look favourably on the users of, the so called, “rare languages” that can be rarely found in school educational offers.





DUAL SYSTEM

→ SINCE 2001, THE FACULTY OF MATHEMATICS AND NATURAL SCIENCES HAS HAD THE AUTHORITY TO CONFER THE DOCTOR'S DEGREE IN THE FIELD OF PHYSICAL SCIENCES, IN THE DISCIPLINE OF PHYSICS. UNTIL NOW, OVER 20 DOCTORAL DISSERTATIONS WERE ACCOMPLISHED, INCLUDING 4 IN THE COTUTELLE SYSTEM AND OTHERS ARE BEING PROCEEDED.

The cotutelle doctorate is a way to internationalize doctoral research, which also gives the opportunity for beginner researcher to work in an international research team. It is also a great adventure and the prospect of learning about another culture. The doctoral student works under the supervision of two co-promoters: the academic staff of the Faculty of Mathematics and Natural Sciences of the Jan Długosz University in Częstochowa and a scientist from a foreign university. As a result, the doctoral student is awarded a double diploma, both from Poland and abroad. The work of such a doctoral student requires long-term stays abroad, which are funded through various scholarship programmes and research grants. Karolina Ordon, a PhD student in a cotutelle system, is a winner of the Excellent Eiffel Scholarship. The French government's grant, awarded to the best PhD students for conducting research in France, allowed Karolina Ordon to stay for one year at the Uni-

versite du Maine in Le Mans. The first degree studies in social work were honoured with a certificate of "Study with the Future" in the Contest and Programme for Accreditation of Studies organized by the Foundation for the Development of Education and Higher Education. The jury awarded certificates to the most innovative and modern courses and programs at Polish universities, which suits well to the needs of the labour market. This field of study is the response to the need for professionally prepared social work staff to counteract social disadvantage such as: marginalization of people and groups, social exclusion or disintegration and social alienation. Students who plan their career path can choose different majors in "Working with families", "Counselling and support for the elderly, and for those with disabilities and chronic illnesses," and "Case Management".

"Case Management" is a new offer addressed to students wishing to study in the dual system, in order to get a diploma from the German Hochschule der Bundesagentur für Arbeit in Mannheim. This major is designed for future graduates who will be prepared for social work and social work tasks and the role of the Case Manager for public services, this is dictated by care for the integration of broadly defined social assistance – social services into the labour market. Students of this major are trained in the practical and theoretical system at the home university and the partner university, using Erasmus + support.

HEALTH SCIENCES

For several years, the Jan Długosz University has been systematically opening the courses of studies in the field of health sciences. The origins of the research in this area can be sought in the course of Physical Education opened a few years ago (now, the course studies of the 1st and 2nd degree). a couple of years later, the students could enroll to the courses of: Physiotherapy (studies of the 1st degree), dietary studies (studies of the 1st degree), cosmetology (studies of the 1st degree). At the end of 2016,

the University obtained the consent of the Ministry of Science and Higher Education to open the course of nursing (studies of the 1st degree). The first enrollment is planned for the academic year 2017/2018. The University invested significant amounts of money into the preparation and equipment of the laboratories connected with the process of education of the students and the research. Presently, both university courses on the health sciences are placed in the structures of the Faculty.

COMERCIALIZATION OF KNOWLEDGE

Modern and competitive economy presently requires the innovations in the form of new products and services that will find their way to the market and the consumers. The ability to transform the knowledge into new products, services, technologies, marketing techniques and organisational solutions determines the marketing success of people, enterprises and the whole economies.

The Centre of Knowledge and Innovation in the Areas of Science and Arts of the Jan Długosz Academy in Częstochowa faces the challenge of modernity in the micro-, mezzo-, macro-perspective, intensifying the mechanisms of the technology transfer and commercialisation of knowledge. According to that, since 2014, the Centre of Knowled-

ge and Innovation in the Areas of Science and Arts of the Jan Długosz Academy in Częstochowa has been cooperating with the Department of European Funds and Development of the Częstochowa City Hall and the Regional Development Agency S. A. in Częstochowa.

The cooperation of the scientific community with the entrepreneurs favours not only the development and the increase of innovation within the enterprises, but also leads to new scientific solutions. The Centre of Knowledge and Innovation in the Areas of Sciences and Arts of the Jan Długosz Academy in Częstochowa facilitates the dialogue between the scientists and enterprises, as well as the dialogue between the scientific units of the Jan Długosz University. Since October, 2016,

the unit has been cooperating with the Ambassador of ZF TRW representing one of the largest employers in the region. The Centre of Knowledge and Innovation in the Areas of Science and Arts of the Jan Długosz Academy in Częstochowa organizes the meetings with the entrepreneurs, tra-

inings in the basics of financial planning conducted by experienced managers. Such activities are aimed at providing information on new ideas, explaining the economic mechanisms in practice. The information directly influences the direction of the scientific research of the scholars.

PATENTS

As the result of the implementation of a scientific project "Bio-reabsorbent polymer porous conveyors of living cells indicating the phenomenon of memorizing the shape" financed by National Science Centre in the years 2011–2014, the Polish Patent Office granted two patents in 2016. The subject of both patents of the same title, "The way of producing porous scaffoldings meant for living cells breeding" is a way of producing porous scaffolding meant for breeding of the living cells used in medicine for treating substantial tissue damages (PAT. 224391) and to conduct in vitro cell breeding (PAT. 224426). The patented cell scaffolding made of biocompatible and biodegradable thermoplastics have the property of shape memory, which allows the formation of porous scaffolding of a porous/ compressed provisional shape in relation to the output permanent shape, which, as the result of a temperature impulse of a human body, undergoes a spontaneous expansion/compression to the initial dimensions. The Centre of Knowledge and Innovation in the Areas

of Science and Arts of the Jan Długosz Academy in Częstochowa also helps to define the potential commercialization of research projects and to develop the cluster connections with other scientific centres, including Ústav Celozivotného Vzdelávania of the University in Žylín and "PACIT" association gathering the representatives of the university entities responsible for the management and commercialization of intellectual property.

The results of the basic research of an applicative potential obtained in the course of the projects realised by Prof. Józef Drabowicz within the OPUS contests were secured by preparing several national and European patent applications of his co-authorship. Their preparation was connected with the project titled "Protection of the patent method of synthesis and biological activity of new onion salts, achiral and chiral ionic liquids, complex hydrogens with metal ions of transient group systems, along with nanotubes functionalized with the substituents with a stereogenic heteroatom" realised



by the team of scholars of the Institute of the Environment Protection Chemistry and Biotechnology in the years 2013–2016 assigned by the National Centre of Research and Development within the framework of Patent Plus Programme. Both applications were based on the research results

on the modification of carbon nanotubes and their supramolecular complexes with sulphonic esters. Three others were based on the results connected with the synthesis and the use of ionic liquids, derivatives of the selected chiral heterorganic connections.

LIBRARY

The role of the academic library, on the one hand means the active involvement in the didactic process realised by the University, and on the other, the preparation of its reader for individual use of the variety of information sources. The role played by a librarian in this process is the one of a specialised intermediary and guide in the world of information. The Main Library of the Jan Długosz University in Częstochowa, as a leading scientific library of the region has a very rich and diverse collection. In the years 2011–2016, its status increased by 515 volumes and right now amounts to 350, 764 inventory units. The library tries to create a good image in the academic and regional community by organizing cyclical thematic and special occasion exhibitions, presentations, and lectures in the scope of “Library Open Days”, and others.

On the basis of current needs and demands of the users in the changing reality, in the context of new tendencies in the education and techno-

logical revolutions, the libraries place a special emphasis not only on working with the users, but also they try to promote the scientific achievements of the Jan Długosz University scientists.

In 2014, a collaboration with the Scientific Publishers Association Crossref was commenced, which develops a joint infrastructure to service effective scientific communication. With the signing of a bilateral agreement, the papers placed in the Scientific Bulletins of the Jan Długosz University in Częstochowa are given DOI identifications, which allows a precise identifying of an electronic document in the Network. Up till now, 588 works have been submitted to the Crossref.

From 2015 onwards, the works on the placement of bibliographies and scientific publications of the Jan Długosz University in Częstochowa scholars in the Polon system have been continued. The current state of database amounts to 3, 926 publications.



SPORTS

→ **THE JAN DŁUGOSZ UNIVERSITY IN CZĘSTOCHOWA IS FAMOUS FOR THE GREAT SPORTS TRADITIONS. THE STUDENTS OF THE UNIVERSITY SUCCEEDED IN MANY NATIONAL AND INTERNATIONAL SPORTS COMPETITIONS.**

The athletic achievements of the students have been facilitated by the activity of the University Academic Sports Club (mainly weightlifting and table tennis sections) cooperating with the Physical Education and Sports Stadium; clubs and societies cooperating with the Jan Długosz University in Częstochowa, among others, ISD AJD "Gol" Częstochowa, KS "Stradom" AJD Częstochowa, WLKS "Kmicic AJD Złote Arkady" Częstochowa, KS "Raków" Częstochowa, CKS "Budowlani" Częstochowa, KS "Częstochowianka" Częstochowa. Our students practise various sports disciplines in clubs and sports societies, where they improve their sports skills and represent the University at academic competitions.

Among the successes of the sports sections, one has to mention the medal achievements of Łukasz Grela and Adrian Pawlicki at the international competitions. Łukasz Grela won a gold medal and the title of the Academic World Champion and two bronze medals at the European Championships in the category of 94 kg. His club partner, Adrian Pawlicki, won the third place during the Academic World Championships. The sportsmen of the weightlifting section won the medals in Polish Championships in the senior

and youth age category, practicing under the supervision of Prof. Wiesław Pilis. The table tennis section of the University Sports Club is also very successful. The female team playing in the table tennis extra league for a long time has many medal achievements. Table tennis players trained by Dr Wiesław Pięta, represent Poland during the World and European Championships, Universiades, Academic World and European Championships and European Student Contests. Martyna Klekot won two medals (gold and bronze) in road cycling at the Academic World Championships. The University sportsmen took part in the events of championship rank in badminton, volleyball, tennis, and others. Adrian Franc won medals in the Open World Championships in Freestyle Football (SHOW). The combat sports players, practicing under the supervision of Prof. Jacek Wąsik, are also very successful winning the medal at Taekwondo World Championships. Every year, the students-sportsmen of the University participate in the sporting competitions of 200 higher schools in the Polish Academic Championships winning top places in the general classification, as well as in the overall competitions of school types. In the last XXXI Olympic Games in Rio de Janeiro (Brazil) in 2016, Jacek Jeloniek, an academic teacher of our University, won 19 place in the athletic walk competition at the distance of 20 km. The University can be proud of outstanding graduates achieving great successes in sports. They are, the representatives of Poland in football, Jakub Błaszczkowski, a graduate of the Faculty of Pedagogy at the specialization of tourism and recreation and Jacek Magiera, a graduate of the Faculty of History, a football club trainer, presently leading the first team of Legia Warszawa.



UNIVERSITY RANKING

The general rankings constitute important criteria of the University activity. They mainly position the level of the scientific research, sometimes only didactics (or both areas) against the background of other units. Rankings can have a local or global character. Domestic rankings of the research level are made every couple of years. a popular ranking criterion of the research level conducted in the universities is, the so called, Hirsch's index, based on the citation rate of the papers. In the ranking of the "Academic Forum" (no. 5 of 2013) and "Politics", Jan Długosz University ranks 40th (for approx. 400 Polish universities). However, the authors of the ranking indicate that Hirsch's index is a parameter dependent on the size of a university, therefore they have scaled the results taking into account the differences in the size of the universities by means of the modified Hirsch's index. In this presentation, the Jan Długosz University ranked 22nd in the country. Besides the scientific

ranking, there are also didactic rankings. The most popular one is the ranking of "Perspektywy" magazine, in which Jan Długosz University takes the middle position in the overall ranking of the higher schools. (There are 117 in Poland). In the prestigious Hirsch's ranking, the Jan Długosz University ranks 35th. (Academic Forum, May 2013) Many popular University rankings in the world scale concentrate on selecting the best hundred schools. The only complete university ranking according to the four criteria is offered by the Spanish Institute of Scientometrics. The results are published on the www.webometrics.info (rankings of approx. 20, 000 higher education schools of the whole world, including the Polish, also the private ones). In the EXCELLENCE ranking criterion – (excellence, this criterion counts the number of publications of a given school belonging to the 10% of the most frequently cited ones in its field) the Jan Długosz University in Częstochowa ranks 48th.



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