



Institute of Education
and Social Studies

Faculty of Education
Palacký University Olomouc

The international scientific conference
for students of doctoral study programs

Current Problems of Pedagogy in Research
of Doctoral Students

"Challenges of Pedagogical Research in the Age of Networking
and Emerging Artificial Intelligence"

Conference program

7th – 8th November 2023

Dear colleagues,

we cordially welcome you to the Faculty of Education of Palacký University in Olomouc. We are very pleased to see your interest in the traditional international scientific conference for students of doctoral study programmes. We wish you an enriching and inspiring time.

Organizational information

All parts of the conference will take place **in the building of the Faculty of Education of Palacký University**, Žižkovo náměstí 5, Olomouc.

The opening of the conference and **the plenary session** will take place in the large auditorium of the Faculty of Education, UP (on the ground floor of the new part of the building, opposite the main entrance to the faculty).

Presentations by active participants will take place on Tuesday, 7 November (five thematic sessions) and on Wednesday, 8 November (four thematic sessions).

The conference includes **three workshops** for pre-registered participants, focusing on quantitative and qualitative research design and activation strategies in higher education.

The presentation of the participants will take place on Tuesday in the foyer of the large auditorium of the Faculty of Education, UP. Participants who arrive in Olomouc on Wednesday will have a presentation in the small auditorium of the Faculty of Education, UP (older part of the building, ground floor on the left).

On both days of the conference it is possible to use the **cloakroom** (on Tuesday in the foyer of the large auditorium, on Wednesday in the small auditorium).

You can **connect to the Internet** in the building (Wi-Fi network **upol**, password **wifiup2022**).

Conference schedule

Tuesday 7th November 2023

- 08.00 – 09.00 registration of the participants (*in the lobby of Faculty of Education*)
- 09.00 – 09.15 **opening ceremony** (*large auditorium of Faculty of Education*)
- 09.15 – 11.30 **keynote speakers** (*large auditorium of Faculty of Education*)
- **prof. PhDr. Tomáš Kasper, Ph.D.**
(Faculty of Science, Humanities and Education, Technical University of Liberec, Faculty of Philosophy, Charles University)
Living history in pedagogy – meaning and "case study" E. Štorch
 - **dr hab. prof. UR Wojciech Walat**
(Instytut Pedagogiki, Uniwersytet Rzeszowski, Rzeszów)
Problems of functional literacy of „homo interneticus“ – a student of a modern school
 - **doc. PhDr. Miroslav Chráska, Ph.D.**
(Faculty of Education, Palacký University in Olomouc)
Multivariate statistical methods and their use in educational research
- 11.30 – 13.00 lunch break
- 13.00 – 14.30 **presentations in thematic sections**
(*rooms P2, P6, P8, classroom by the small auditorium, small auditorium*)
- 15.00 – 16.30 **workshop 1**
Quantitative research design
doc. PhDr. Miroslav Chráska, Ph.D.
(*small auditorium*)

Conference schedule

Wednesday 8th November 2023

- 08.00 – 08.30 registration of the participants (*small auditorium*)
- 08.30 – 10.00 **workshop 2**
Qualitative research design
– its specifics and use in educational research
doc. PhDr. Tomáš Čech, Ph.D.
(*room P6*)
- 10.30 – 13.00 **workshop 3**
Strategies of activation in higher education
Mgr. Jana Trabalíková, Ph.D.
(*small auditorium*)
- 13.00 – 14.00 lunch break
- 14.00 – 15.30 **presentations in thematic sections**
(*rooms P6, N3, classroom by the small auditorium, small auditorium*)

Tuesday 7th November 2023

Section 1

Chairmen: **Mgr. Jiří Kropáč, Ph.D., LL.M.**
Danping Peng, Ph.D.

Time of presentations: **13.00 – 15.00**

Room: **classroom by the small auditorium**
(older part of the building, ground floor on the left)

Intercultural communicative competence of university teachers of English as foreign language in Palacký University Olomouc

Bc. Wenqian Wang

The master diploma thesis is focused on the issue of intercultural communicative competence of a university teacher of English as a foreign language. The theoretical part of the diploma thesis defines the terms culture and its dimensions, multiculturalism, interculturalism, competences, intercultural communicative competences and teachers and students from different socio-cultural backgrounds. The empirical part of the diploma thesis will present the results of preliminary research focused on the level of intercultural communicative competences of teachers of English.

Development of critical thinking skills in higher education through teaching strategies – perceptions of future teachers.

Bc. Bisola Christiana Adeleke

In higher education, critical thinking skills have emerged as a critical component for intellectual development and success in today's increasingly complex world. Debates, inquiry-based instruction, and interdisciplinary teaching strategy have been identified as potential approaches that can facilitate the development of critical thinking skills in higher education. Regular assessment and feedback are essential components for evaluating the impact of these teaching strategies on the development of critical thinking skills in students. In light of the above findings, future research in this area could explore the specific strategies and approaches that work best for different types of learners, as well as the potential barriers and challenges that future teachers may face in implementing these strategies in practice.

The development and application of observation scale based on discipline core competencies in teacher training students simulation teaching: taking Chemistry as an example

Bc. Xiao Yu

Research Objective: An attempt is made to construct an observation scale that can scientifically, rationally, and effectively evaluate the Simulation teaching of chemistry teacher training students. It will also be applied in practice to provide a preliminary exploration of the current state of normal education. To achieve the aim of promoting teaching through evaluation.

Methods of using open digital technologies in the educational process

Oksana Valeriivna Chaika

The article considers the importance of using open digital technologies in the modern educational process in the context of the digital development of society. Paying attention to the powerful influence of technology on learning and educational methods, the authors explore various methods of implementing open digital solutions in educational institutions. They analyze the benefits of this approach, such as increasing the accessibility of knowledge, creating interactive learning environments, and developing students' critical thinking. Research also emphasizes the challenges and opportunities associated with the implementation of open digital technologies in the educational process. This article reflects current trends in modern education and provides grounds for further research in this direction.

Tutoring technology in the development of the educational and scientific environment of the pedagogical master's degree

Yuliia Sylenko

One of the most important conditions of the educational and scientific space of a higher education institution is individualization. The opinion is asserted that professional and pedagogical training should be implemented on the basis of innovative activity, which will provide for an increase in the quality of education. One of such innovations implemented by the Department of Pedagogy of Dragomanov Ukrainian State University (Kyiv) is tutoring. The priority significance of the introduction of tutoring is being updated. With such an approach, tutoring is able to fully implement the professional and pedagogical training of a teacher of a higher education institution on the basis of acmeological, humanistic, personal-activity, context-competence approaches.

Personalization of the process of professional training at universities using tutoring technology

Kateryna Kokhan, Associate Professor Vanda Vyshkivska

Analyze of the theoretical and methodological aspects of the personalization of the professional training process in higher education institutions by means of tutoring technology; a review of the scientific literature was carried out for the purpose of substantiating the conceptual foundations of the process of personalization of education. The role of personalization of education in the formation of the subject position of the student in the process of professional training and in the creation of an individual educational trajectory is defined.

Tuesday 7th November 2023

Section 2

Chairmen: **doc. PhDr. René Szotkowski, Ph.D.**
Mgr. Eva Dvořáková Kaněčková, Ph.D.

Time of presentations: **13.00 – 14.30**

Room: **small auditorium**
(older part of the building, ground floor on the left)

Infiltration of artificial intelligence into education

Mgr. et Mgr. Tatiana Kutiš, Mgr. M.Sc. Ing. Kristína Žilínková

The economic sophistication, technological advancements, the influence of social networks on our lives, all of these factors accelerate the development of AI, which is gradually becoming established in everyday life. Through applied research, we try to point out how easy it is to use AI in the student's life when processing school assignments, with the fact that the quality of the output is sometimes indistinguishable from real students' written work. It found that works from general education subjects created by AI are almost indistinguishable from students' works. The initial results of this study suggest that teachers' ability to recognize AI created works is more difficult than expected and thus opened a discussion on the importance of comprehensive education and support of teachers.

Media education in the Czech Republic: current state and the challenges related to the arrival of artificial intelligence

Mgr. Bc. Karolína Ziburová

Media education is by its essence a very dynamic subject that must constantly react to the current media and digital environment. It is currently facing a great challenge: the artificial intelligence. Our presentation offers an analysis of the current state of media education in the context of the Czech education system and the emergence of artificial intelligence in the everyday life of educators and pupils. The key topic is then the integration of artificial intelligence into the classroom and the challenges that teachers and education professionals face. The presentation puts the Czech environment in a global context and points out opportunities that modern technology offers to teachers.

Development of digital literacy in the subject Czech language and literature on primary school

Mgr. Aneta Zikmund Szüllöová

Contemporary society lives in a world where digital technologies are ubiquitous. The rapid development of these technologies has a significant impact on many aspects of our lives. In this context, the education system has an important role to play in preparing students for a technology-oriented world, as it enters the sphere of interest of children at pre-school age. Rapid technological progress also requires new competences (digital competences) from primary school pupils. The contribution will present the results of several studies that have addressed this issue, with a focus on primary education. Afterwards, a dissertation project focused on the possibilities of developing digital literacy in the subject Czech language and literature on primary school will be briefly described.

Can AI present a real past? Midjourney as a useful tool for history didactics

Mgr. Peter Rajčák

The turbulent changes brought by AI in 2023 cannot be ignored even by the didactics of history. Midjourney is an AI tool used to generate images. A large number of them depict the past in a never-before-seen form and thus help to make it accessible and spread among students. The paper deals with how to turn the Midjourney Bot into a useful tool for history didactics and, secondarily, other field didactics. For these needs, we carried out research in secondary schools, which detects the potential of creating visual material in history lessons and their subsequent correction directly by students.

Caricature as a teaching tool for engaging history education

Mgr. Ján Jasič

Caricature effectively visualizes historical events, personalities and ideas, making it an effective learning tool. This provides students with a unique opportunity to understand historical contexts in their complexities and nuances. This review study draws on existing research on visual aids in the teaching of history to uncover the potential of caricatures as educational tools. It provides a conceptual framework for incorporating caricatures into history teaching methods, highlighting their role in promoting active historical inquiry. Using caricature as a teaching tool can result in a dynamic and engaging learning environment.

Tuesday 7th November 2023

Section 3

Chairmen: **doc. PaedDr. Marcela Musilová, Ph.D.**
Mgr. et Mgr. Kateřina Valchářová, Ph.D.

Time of presentations: **13.00 – 14.30**

Room: **P6 (older part of the building, ground floor on the right)**

A model of the mandatory evaluation system as a research opportunity in long-term project cooperation with teachers

Mgr. Jaroslava Swoboda

This contribution presents one model of the mandatory project evaluation system. This design offers the use of research potential during the implementation of non-research long-term projects in which teachers participate as one of the target groups. The application of the predetermined design of the evaluation system for mandatory project evaluations could not only provide the donor with real and up-to-date information from pedagogical or school practice, but it could also serve as one of the sustainability criteria, already at the stage of planning and preparation of the assignment defined by the grant provider. The author of the is an evaluator of the two-year project Theater for Democracy, implemented in Divadlo Archa, o.p.s. in Prague.

Support for the development of reading preliteracy of a bilingual child in the family and kindergarten

Mgr. Aneta Hřavová

This research is carried out as a follow-up to a previous study, the aim of which was to find out how parents within the family environment support the development of their children's preliteracy. The results raised questions related to the socioeconomic status of bilingual education in the family and the use of information about the child when working in kindergarten, which is the focus of the current study. The aim of the research is to find out how the development of reading preliteracy of a bilingual child is supported in the family and kindergarten. The results show a strong support of reading literacy and bilingual education from the family. Kindergarten also supports reading pre-literacy, but is less systematically targeted at the specific needs of a bilingual child.

Satisfaction of parents of children with disabilities using the early intervention service – partial research results and challenges

Mgr. Anna Strnadová

In the Czech Republic, early intervention, meaning the support of a family of a child with a severe disability, is mainly provided by the service of early intervention. The aim of the service is independence and autonomy of the family – families can achieve this with the help of networking, which is becoming an important topic. This paper presents the research and its goal – to improve the quality of the services, the research design, partial results and challenges the research faces. The aim of the project is to characterize the satisfaction of parents of children with disabilities using the early intervention services and their attitudes towards the service. It can be already concluded that the majority of respondents are very satisfied with the provision of the service.

Actual problems of primary education of individuals with Autism Spectrum Disorder

Mgr. Roberta Drugová

The Ministry of Education of the Slovak Republic introduced in Act No. 182/2023 Coll., amending and supplementing Act No. 245/2008 Coll., a system of support measures aimed at providing targeted support for students considering personnel, spatial, material, and technical conditions. As part of the ongoing pre-research for the dissertation, we are exploring the attitudes of educators through qualitative research. We are conducting focus groups with teachers and members of the school support team to determine their attitudes towards educating students with special educational needs in primary education. The focus of interest is the current readiness of pedagogical and professional staff in primary education for educating students with autism spectrum disorders.

Teaching foreign languages to children with dyslexia, dysgraphia

Mgr. et Mgr. Martina Hoffmannová

Teaching and learning foreign language played, plays, and will always play a very important role in an individual's life. In the realm of education, adapting to individual learning needs is extremely important. This article deals with the teaching of German language to children with dyslexia and dysgraphia in primary schools in the Czech Republic. German, with its peculiarities such as capitalizing nouns, compound words, case system, and different syntax (compared to the Czech language), can present specific obstacles for pupils with these specific learning disabilities. Individual approach, patience, and flexibility are essential for educators. Collaboration between experts, teachers, parents, and pupil plays a very important role.

Tuesday 7th November 2023

Section 4

Chairmen: **doc. PhDr. Tomáš Čech, Ph.D.**
JUDr. Zdenka Nováková, Ph.D.

Time of presentations: **13.00 – 14.30**

Room: **P8 (older part of the building, basement on the right)**

Social pedagogy and inclusive education in an international context

Mgr. Milada Kovalíková

In this review study we present the importance of social pedagogues in schools in different countries, including Slovakia. Through a comparative approach, the aim of the review study is to highlight the possibilities of using the work of social pedagogues in schools. The primary mission of social pedagogy is perceived to be within the inclusion of individuals or groups of intact or SEN pupils. Preventive social pedagogical activities are aimed at counteracting social exclusion, guiding pupils, raising awareness and democratic education. The study results in the great importance of social pedagogy in schools with a specific focus on the prevention of segregation and exclusion of pupils.

The adaptation of 1st-grade pupils to the school environment as a crucial period for a successful start of compulsory education

Mgr. Lucie Skoupá

The article aims to present the results of research on the adaptation process of first-grade pupils. Qualitative research, consisting of case studies and interviews with teachers, was used to gather data. In the introduction, the author discusses the importance of the topic, expert opinions, and findings from the National Institute for Education. Subsequently, the author describes the methodology, results, and research evaluation. The author points out problematic areas, such as a lack of empathy, the suppression of the need to express oneself, and inappropriate reactions to failure, which can negatively affect education. The article concludes with a summary of the issues and suggestions for solutions.

Reuven Feuerstein's Instrumental Enrichment Programme as a Tool for Cognitive Education in the Context of Education of Primary School Pupils from Socially Excluded Locality

Mgr. Eliška Kučáková

The issue of education of pupils from culturally different environment and with different living conditions continues to be a current problem, especially in terms of school success. Pupils reach certain levels of cognitive functions in their development that are prerequisites for mastering the more complex and sophisticated skills they learn at school. Thus, the underdevelopment of these functions, among other factors, can be a significant barrier in their education and, henceforth, in their employment success. The paper will present the results of research focused on cognitive stimulation of primary school pupils from socially excluded locality through the use of Reuven Feuerstein's Instrumental Enrichment Programme.

Prevention of inappropriate sexual behavior as a key function of sex education in the online space

Mgr. Barbora Balogová

The goal of the paper was to analyze the creation of preventive activities within the classroom aimed at preventing inappropriate sexual behavior. To map the types and rate of inappropriate sexual behavior occurring in schools at re-education centers in the Slovak Republic. Create, implement and verify the effectiveness of preventive activities through lessons aimed at preventing inappropriate sexual behavior of pupils. The secondary goal was the creation of a preventive program for the purposes of the online space, thanks to the ZSE Foundation project, due to the current epidemiological situation at the time and the course of distance learning. We have created 22 interactive materials. We used the form of video, interactive activities, secretaries, quizzes, posters, worksheets.

The developmental path of convicts

Mgr. et Mgr. Ondřej Ling

This paper will discuss the outcomes of a thesis that focused on the developmental journey of young adults in prisons. The significant risk factors that stood in the way of these individuals will also be presented. The findings will be presented in the context of the future research directions.

Tuesday 7th November 2023

Section 5

Chairmen: **prof. RNDr. Josef Molnár, CSc.**
 Mgr. Vlado Balaban, Ph.D.

Time of presentations: **13.00 – 14.30**

Room: **P2 (older part of the building, basement on the right)**

Information and communication technologies in physical and sports education and their implementation in the professional development of teaching staff

PaedDr. Monika Popluhárová

The aim of the dissertation project is to expand our knowledge regarding the utilization of information and communication technologies in physical and sports education and their implementation in the professional development of teaching staff. An ex-post facto research design is used to assess the current state of ICT use as well as pedagogical experiment has been conducted to investigate the impact of an educational program on shaping the opinions of teachers regarding their implementation. To collect data, questionnaires, a pedagogical experiment, interviews, and the analysis of final papers are employed. Data analysis involves the use of descriptive statistical methods and correlation analysis. The research findings will help formulate practical recommendations.

Pupils' attitudes towards physical and sports education and the level of movement competences at the primary level of education

PaedDr. Lucia Hlatká

Sport and physical activity play an important role in the life of every individual. Any physical activity is very important for both physical and mental health. Therefore, the importance of physical activity should not be forgotten even in the teaching process. The subject matter of the article is to find out the the pupils' attitudes towards physical and sports education and the level of movement competences at the primary education. In our study, we will focus on the diagnosis of motoric skills with the MOBAK test battery. The MOBAK test battery differs from the traditional testing of students' motoric skills, in which the testing focuses on detecting the movement performance, with a modern understanding of the outcomes of education in physical and sports education.

The comparison of physical fitness of pupils of Roma ethnicity and majority population

Mgr. Jaroslav Sučka, Mgr. Pavol Čech, PhD., Mgr. Monika Vašková, PhD.

The issue of integration of the Roma ethnic group into society is more discussed than before, but in the majority population, this issue is not a high priority. Many people consider the integration of the Roma ethnic group a social problem. The sport seems to be a means of integrating the Roma ethnic group into society. The aim of the study was to determine the current level of physical fitness in girls of the Roma population and the majority population. The results showed statistically significant differences between girls ($p < 0.05$) in favor of the majority population in the motor tests: 10 x 5 m shuttle run, sit-ups in 30 seconds, flexed arm hang, and plate tapping. The research results could be a motivation for teachers who teach the Roma pupils.

Development of joint mobility of pupils in elementary school sports classes

Mgr. Frederika Pajonková, doc. Mgr Rút Lenková, PhD

The current daily activities of pupils in sports classes of elementary schools contribute to a reduction in the range of joint mobility, which can lead to the occurrence of disorders of the musculoskeletal system. The aim of this study was to verify the effectiveness of a compensatory program for the development of joint mobility of elementary school sports class pupils. A comparison showed improvement in the shoulder joints mobility, spine and flexibility of the hamstrings, spine and trunk flexibility. In conclusion, we recommend that physical education teachers of elementary schools include stretching exercises in the final part of the lesson, thus the teachers themselves can reduce the risk of developing disorders of the musculoskeletal system of elementary school students.

Wednesday 8th November 2023

Section 6

Chairmen: **doc. PhDr. René Szotkowski, Ph.D.**

Mgr. Jitka Nábělková, Ph.D.

Time of presentations: **14.00 – 15.30**

Room: **small auditorium**

(older part of the building, ground floor on the left)

Stress coping strategies of student teachers in the virtual reality environment

Mgr. Veronika Káplová

This contribution presents a current dissertation project that focuses on research in the area of teaching innovation for teachers and at the Faculty of Education. The objectives of the thesis are based on the parameters of the VR Team project, consists of the development and implementation of a system for training the communication competences of student teachers in a virtual reality. The object of the study is the identification of stress management strategies in student teachers that are used both in practice and in the virtual reality. The training will be evaluated and assessed based on the outcomes of questionnaire methods and qualitative analysis of participants' statements. The paper covers both the theoretical background of the project and the implementation plan of the study.

Reflection and self-reflection in the undergraduate training of teacher students

Mgr. et Mgr. Petra Hořejšová

The contribution informs about the partial results of qualitative research within the current dissertation project. This work is focused on reflection and self-reflection in the undergraduate training of teacher students. The goal of the research is to map and describe how teacher students' ability to reflect, self-reflect and work with feedback develops. The project set sub-aims which included exploring the methods educators use to encourage reflection in students during their studies, as well as evaluating their own work in this area. Furthermore, how individual actors perceive the process of reflection. This research was conducted as part of a multi-case study, where two groups of student teachers were followed for four semesters.

Teacher beliefs or "Motivations for choosing a teaching profession"

Mgr. et Mgr. Tereza Vašutová, DiS.

The research study defines the basic terminology (teacher beliefs, motivations for choosing a profession) which is the background for the subsequent research findings. The research inquiry is developed using a biographical qualitative research design. Data were collected from 5 high school and university teachers with varying lengths of experience. The findings are categorized for better clarity. The results indicate that teachers' beliefs and motivation are perceived positively by teachers. Teachers are satisfied with their profession and find it meaningful. The teaching profession captures the advancement of knowledge and knowledge of the future generation. However, even teachers face some hardships at times.

Implementation of cooperative learning in university teaching

Mgr. et Mgr. Hana Pavlisová

We can't compete with artificial intelligence. But we can focus on developing what it lacks – humanity. Improved interpersonal relationships, openness to the views of others and non-confrontational communication are just some of the benefits of cooperative learning, alongside better academic achievement. In my research, I collaborate with university educators from faculties preparing future teachers to implement cooperative learning principles in their teaching. I help teachers tailor a strategy for successful implementation in their courses and then use questionnaires, interviews and lesson observation to identify examples of good practice and barriers that currently stand in the way of successful implementation.

Teacher as a Quality Carrier in Higher Education: The Link between Theory and Practice

Mgr. Lucia Hradská

Quality in higher education requires the ability of teachers to link theory and practice and adapt to the changing needs of the labour market. The purpose of this article is to examine the teacher's role as a carrier of quality in higher education from the student's perspective. It analyses how students think about linking theory and practice within lectures and how they perceive this concept. The research applies a qualitative methodology. A constant comparative strategy is used to analyse the data. For the purpose of improving higher education, it is important to analyse the facts from the perspective of the students themselves, as they are the ones who can define the needs and requirements of the students.

Wednesday 8th November 2023

Section 7

Chairmen: **doc. PhDr. Jana Kantorová, Ph.D.**
Mgr. Iva Koribská, Ph.D.

Time of presentations: **14.00 – 15.30**

Room: **classroom by the small auditorium**
(older part of the building, ground floor on the left)

Light art as a means of developing creativity and imagination in art education

Mgr. Jakub Havlíček

The post is part of a dissertation project that deals with light art as a means of developing creativity and imagination in art education. Art educational assignments were carried out with pupils and students at different levels and types of schools, using light as an artistic or expressive means. The intention was to implement valuable work with light in art-oriented subjects. The purpose was to break free from formulaic repetitive teaching practices and methods, from schematic habits, through creative art activities and experiential activities. The aim is to present didactically attuned realisations that are supportive of the research itself. The aim is to achieve findings with the intention of direct and holistic application in art education.

Intuitive pedagogical concepts of the artist-pedagogue Aleš Veselý. Partial results of the research investigation

Mgr. Patricie Bezděková

Conference contribution focuses on current research investigating the perspective on the intuitive pedagogical approach of the artist-educator Aleš Veselý within the contemporary Czech context. The work aims to identify the key elements of his pedagogical approach in the context of his life and artistic work. The research data is based on biographical materials and interviews with other visual artists whose work was already prominent during the period of normalization and who teach at universities. The obtained data provide valuable insights into how art education can be viewed, how it enriches the field's discourse, and what role the dual role of artist-educator plays in this context.

Phraseological Competence in GFL Lessons at Czech High Schools

Mgr. Andrea Frydrychová

Since the 1970s, a number of studies have been published on the issue of phraseology in foreign language teaching, but a clear and systematic description of the successful development of phraseological competence in the teaching of German as a foreign language in Czech high schools remains a research desiderate even today. The aim of the planned dissertation is to determine to what extent phraseological competence and its development in German as a foreign language classes in Czech high schools is in focus. In doing so, I start from the assumption that little emphasis has so far been placed on the development of this type of competence in German classes in the aforementioned type of schools.

Developing Critical Thinking of Secondary School Pupils in English Language Classes through Literary Texts

Mgr. Jakub Kundra

This conference contribution deals with the issue of integrating literary texts into the teaching of English as a foreign language for the purpose of developing critical thinking. The aim is to evaluate the potential of literary texts for the development of critical thinking, to specify the possibilities of their integration into English language teaching in the context of secondary school education and to suggest how literary texts can become an effective means of developing critical thinking skills. Theoretical methods such as analysis, deduction, comparison, synthesis and generalization were used in the elaboration of the issue.

Curricular anchoring of civic education in historical development and international comparison

PaedDr. Marek Bubeník

Curricular policy related to the subject of civics, systematic examination of contexts between versions of the curriculum for a given subject across historical development from its inception to its current form. The aim is to identify relationships between the current curriculum development of the OBN and its predecessors, while the resulting findings could lead to knowledge of what opportunities are offered for improving the curricular base of the subject (new model). Methodological procedures consist of content analysis of the most representative materials and their comparison according to criteria. Revealed findings will be crucial for further development of the subject, also with an emphasis on the directly related didactic framework and possibilities for international comparison.

Wednesday 8th November 2023

Section 8

Chairmen: **doc. PhDr. Miroslav Chráska, Ph.D.**
PhDr. Jaroslava Ševčíková, Ph.D.

Time of presentations: **14.00 – 15.30**

Room: **P6 (older part of the building, ground floor on the right)**

The Impact of Highly Effective Teaching Model on Primary and Secondary School Pupils Compared to Standard Teaching

Mgr. Klára Barancová, Dis., doc. Mgr. Jiří Kantor, Ph.D.

The presented contribution is a protocol of a systematic review that deals with impact of the Highly Effective Teaching model on teaching results at primary and secondary schools. The Highly Effective Teaching (known also as Integrated Thematic Instruction, HET/ITI) is an open educational model based on searching and choosing topics through which pupils achieve educational goals. This teaching model strives for synthesis of curriculum and creating links between educational subjects. The teaching model is based primarily on one year-round unifying topic and its elaboration into branching topics and skills. This teaching model is currently used in educational policies of many countries, however, there is no systematic review that would verify its effectiveness.

The use of the uLAB alternative measurement system in the independent experimental activity of students in secondary schools

Mgr. Veronika Grešová

The author of the article focuses on the uLAB alternative measurement system and its use for the independent experimental activity of students in secondary schools. It describes the possibilities of its use not only for students, but also for teachers, as it is suitable for verification, demonstration experiments and experiments in extracurricular activities. The author of the article analyzes the possibilities of implementing the measurement system into the educational process. Part of the implementation will also be the preparation of video instructions for individual experiments, where it will present the stages of creating instructional videos with the perspective of their publication on an information portal for students and teachers.

Synergy between science literacy and study interest

Mgr. Nikola Tesľuková

The publication's author focuses on the presentation of the thesis project, which is focused on research about the synergy between science literacy and the study interest in Physics among primary school students and lower secondary school students in eight-year grammar schools. The article briefly discusses the characterisation of basic concepts, the rating of the level of science literacy of Slovak students, as identified in the PISA studies, the possible development of science literacy and study interest, also through the use of information and communication technologies in the Physics lessons. At the end, the goals, research methods to be implemented and planned outputs of the thesis are presented.

The argumentation for the apply of remote sensing images in geography education

Mgr. Denisa Simerská

Various forms of spatial visualization in teaching geography are used, like atlases, globes, and geoinformation technologies. In most cases, spatial data in education have the form of topographic and thematic maps. Remote Sensing (RS) offers another visualization option, thanks to satellite imagery. These images provide rapid distribution, a realistic representation, and easy accessibility on the internet. Images are understandable for most of today's internet users, making them an interesting alternative to topographic maps. Satellites scan a large spectrum of electromagnetic radiation, which means that each image contains information with characteristics of thematic maps. This contribution follows a systematic review study and presents arguments for the use of RS imagery in education.

Education of gifted pupils in mathematics

Mgr. Jana Veseláková

The aim of this paper is to present a dissertation project within the framework of doctoral studies at the Department of Pedagogy at Masaryk University. The dissertation will focus on the issue of education of gifted pupils in mathematics at different primary schools (traditional classes, classes focused on education of gifted pupils) and multi-year high schools from the point of view of gifted pupils, teachers and parents. The education of gifted pupils is currently discussed topic, and therefore the contribution of this paper could be significant for educators, students of education, parents of gifted pupils and other educational institutions dealing with gifted pupils. Research questions, methodology and findings regarding approaches of teaching gifted pupils abroad will be presented.

Wednesday 8th November 2023

Section 9

Chairmen: **doc. PhDr. Martina Fasnerová, Ph.D.**

Mgr. Tereza Buchtová, Ph.D.

Time of presentations: **14.00 – 15.30**

Room: **N3 (new part of the building, ground floor on the right)**

Vocal and relaxation activities in education with regard to online education

Mgr. Lukáš Polanský, DiS.

The paper presents the dissertation project that the researcher is working on in his doctoral studies. The paper will specify the area of research, the theoretical background of the issue, as well as the proposed research design including the presentation of interim results. The aim of this paper is to present the e-learning that was developed with the financial support of an IGA student grant. The main content of the e-learning is the singing and yoga instructional videos that the respondents work with during their home preparation for the class.

Analysis of verbal expression and identification of physiological markers of emotion in virtual reality

Mgr. Bc. Michaela Krakovská

The paper is a proposal for a dissertation project in the field of educational psychology. The study will analyse the relationship between interpersonal communication, personality traits and verbal expression of students in stressful situations using virtual reality and multidimensional analysis. Stable tendencies as well as variability in communication behavior and physiological and emotional reactions of student will be identified. Computational psycholinguistic methods will be primarily used to analyze the data. The study may contribute to a better understanding of the interactions between emotions, personality characteristics, and verbal expression not only in educational settings, which is pivotal for the development of teaching practice and psychological support for students.

Self-regulated learning of secondary school students

Mgr. Julie Junaščíková

Self-regulation of learning is the process of self-management, with the help of which students transform their mental abilities into the skills needed for learning. Various factors can enter into this process that can influence it. The research aims to measure the level of self-regulation of learning of secondary school pupils in the best and worst-rated regions in the Czech Republic. We want to reveal the perceived intensity of social factors on self-regulation of learning and find out if there is a connection between self-regulation of learning and dominant social factors. Pupils from the best and worst-rated regions showed similar learning self-regulation levels. Pearson's correlation coefficient showed a link between self-regulation of learning and dominant social factors.

Self-assessment skills of primary school pupils and their impact on intrinsic motivation and self-regulation of learning – dissertation project

Mgr. Julie Grombířová

Self-assessment is an essential part of feedback to support pupils' learning. Based on the concepts of formative assessment, assessment as learning, comprehensive developmental assessment, and previous research findings, the dissertation project expands upon the theme of self-assessment skills of primary school pupils. The presentation aims to summarize the theoretical and empirical foundations of self-assessment and self-assessment skills of primary school pupils and to present the planned methodology of a quantitative research investigation to explore the relationship between the level of self-assessment skills of primary school pupils and their self-regulation of learning and intrinsic motivation.

Primary School Teacher Competences in the Context of Current Curricular Changes

Mgr. Klára Křivánková

The research project analyses the soft skill competences of primary school teachers in the context of current curriculum changes, including identifying competences related to ICT. The concept of soft skill competences will be operationalised on the basis of the intersection of professional competences, soft skills and key competences. The research will be based on a quantitative research design (Q-methodology, questionnaire). Teachers will rank and justify their choice of Q-types and evaluate how the university has equipped them with soft skill competences, followed by an interview.

