# TABLE OF CONTENTS

**INTRODUCTION** ................................................................. 11

**CHAPTER I.**
Innovative Educational Technologies, Tools and Methods for E-learning

Anna Ślózarz
**THE MOODLE COMMUNITY PLATFORM VERSUS THE MICROSOFT TEAMS CORPORATE APPLICATION** ........ 15

Pedro Ramos Brandao
**CLOUD COMPUTING AND E-LEARNING (COMPUTER NETWORK LABORATORIES FOR CURRICULUM DEVELOPMENT IN CLOUD COMPUTING)** ........................................... 29

Svetlana Kulikova, Olga Yakovleva
**INDIVIDUALISED PATHS OF MASTERING AN ELECTRONIC COURSE CONTENT** .............................. 41

Mariia Boiko, Nataliia Morze, Lillia Varchenko-Trotsenko
**COMMUNICATION AND COOPERATION IN DISTANCE LEARNING** ........................................ 50

Svitlana Skvortsova, Tetiana Britskan, Yana Haievets
**E-COURSE “INTERNET RESOURCES FOR CREATING MATHEMATICAL LEARNING AND GAME CONTENT FOR PRIMARY SCHOOLCHILDREN”** ................................. 65

David Buchtela, Dana Vynikarová
**CONNECTION BETWEEN ONTOUML AND KNOWLEDGE REPRESENTATION MODEL OF STUDENT’S ACTIVITIES** ...... 77

Oksana Buinytska, Svitlana Vasilenko
**E-LEARNING TO ENSURE THE EDUCATIONAL SERVICES’ QUALITY IN UNIVERSITY DISTANCE LEARNING** ........ 88

Victoria Kurilenko, Yulia Biryukova, Kristina Akhnina
**GAMIFICATION AS A SUCCESSFUL FOREIGN LANGUAGES E-LEARNING FOR SPECIFIC PURPOSES** ............ 100

Tetiana Vakaliuk, Oksana Chernysh
**ELECTRONIC MULTILINGUAL TERMINOLOGICAL DICTIONARY COMPILATION AS A MEANS OF STUDENTS PROFESSIONAL AND LEXICAL COMPETENCE DEVELOPMENT** .......................... 113
Mariusz Marczak
THE POSSIBILITY OF USING LINGUISTIC ANALYSIS TO FUNNEL STUDENT TRANSLATORS’ POST-ONLINE-EXCHANGE REFLECTIONS TOWARDS THE METACOGNITIVE ELEMENTS OF TRANSLATOR COMPETENCE ........................................ 126

Gennadiy Karimov, Nataliia Kuzmenko, Tetiana Radchenko
DISTANCE TECHNOLOGIES IN THE TRADITIONAL MODEL OF HIGHER EDUCATION ........................................................................ 137

Marina Drushlyak, Olena Semenikhina, Volodymyr Proshkin and Olha Naboka
USE OF SPECIALIZED SOFTWARE FOR THE DEVELOPMENT OF VISUAL THINKING OF STUDENTS AND PUPILS .................. 147

Oksana Shelomovska, Liudmila Sorokina, Maryna Romaniukha, Natalya Sorokina, Iryna Machulina
CLOUD TECHNOLOGIES FOR TRAINING UNIVERSITY STUDENTS OF SOCIO-HUMANITARIAN SPECIALTIES AND PUBLIC ADMINISTRATION ......................................................... 159

CHAPTER II.
Development of Key and Soft Competences and E-learning

Lyudmyla Khoruzha, Volodymyr Proshkin
DISTANCE LEARNING: ON THE WAY TO DEVELOPING A NEW DIDACTIC MODEL OF UNIVERSITY EDUCATION ....................... 171

Rusudan Makhachashvili, Ivan Semenist, Yuliya Shtaltovna, Anna Backtina
ICT TOOLS AND PRACTICES FOR FINAL QUALIFICATION ASSESSMENT IN THE FRAMEWORK OF COVID-19 LOCKDOWN ................................................................. 183

Małgorzata Wieczorek-Tomaszewska
VISUAL LITERACY IN CONTEMPORARY CULTURE – COMPARATIVE RESEARCH ............................................................... 195

Svitlana Skvortsova, Ruslana Romanyszyn
USE OF ONLINE SIMULATORS FOR THE FORMATION OF PRIMARY SCHOOL LEARNERS’ COMPUTING SKILLS ................. 207

Milena Janakova
E-LEARNING USING MODERN TECHNOLOGIES SUPPORTING INNOVATIONS BASED ON A SCIENTIFIC APPROACH ........ 220

Oksana Strutynska, Mariia Umryk
DISTANCE LEARNING TOOLS AND TRENDS: LOCAL SURVEY OF TUKRAINIAN EDUCATORS .................................................. 230
CHAPTER III.
E-learning in STEM and STEAM Education

Xabier Basogain, Krzysztof Gurba, Theo Hug, Nataliia Morze, Tatiana Noskova, Eugenia Smyrnova-Trybulska

STEM AND STEAM IN CONTEMPORARY EDUCATION: CHALLENGES, CONTEMPORARY TRENDS AND TRANSFORMATION. A DISCUSSION PAPER 242

Todorka Glushkova, Stanimir Stoyanov, Veneta Tabakova-Komsalova, Maria Grancharova-Hristova, Irina Krasteva

AN APPROACH TO TEACHING ARTIFICIAL INTELLIGENCE IN SCHOOL 257

Miroslav Kamenský, Eva Králiková, Mikuláš Bittera, Jozefa Červeňová, Karol Kováč

FLEXIBLE SYSTEM OF REMOTE APPLICATIONS AND TEACHING WITH SENSORS 268

Tomas Barot, Lilla Korenova, Radek Krpec, Renata Vagova

UTILIZATION OF MATHEMATICAL SOFTWARE IN FAVOR OF TUTORING PROCESSES 279

CHAPTER IV.
E-environment and Cyberspace.
E-learning and Internationalisation in Higher Education

Nuno Silva, Izabel Alvarez, Paulo Pinto

E-LEARNING IMPLEMENTATION – FROM ACTION TO EQUITY IN AN INTERNATIONAL HIGHER EDUCATION INSTITUTION 290

Nadiia Balyk, Galyna Shmyger, Yaroslav Vasylenko, Anna Skaskiv, & Vasyl Oleksiuk

STUDY OF AUGMENTED AND VIRTUAL REALITY TECHNOLOGY IN THE EDUCATIONAL DIGITAL ENVIRONMENT OF THE PEDAGOGICAL UNIVERSITY 306

Kateryna Yalova, Liudmila Sorokina, Kseniia Yashyna, Oksana Shelomovska, Oleksandr Shumeiko, Bohomaz Kostiantyn

E-LEARNING SYSTEM DEVELOPMENT AND IMPLEMENTATION: UNIVERSITY EXPERIENCE 315

Halyna Henseruk, Bogdan Buyak, Volodymyr Kravets, Hryhorii Tereshchuk, Mariya Boiko

DIGITAL TRANSFORMATION OF THE LEARNING ENVIRONMENT IN THE UNIVERSITY 326