



National Technical University “Kharkiv Polytechnic Institute” (Kharkiv, Ukraine)

Cross-Cultural Communication and Foreign Language Department

AN INNOVATIVE MODEL OF RESEARCH PROJECTS

AIMED AT THE INTEGRATION OF

UKRAINE INTO THE EUROPEAN SCIENTIFIC SPACE

An Annual International PhD Conference

(April 11, 2024)

PROGRAMME

Kharkiv, 2024

Opening ceremony

Key speakers:

1. Sergeyeva Tetyana (Professor, DSc, National Technical University “Kharkiv Polytechnic Institute”, Kharkiv, Ukraine). Welcoming Speech.
2. Festeu Dorin (Buckinghamshire New University, Buckinghamshire, the UK). Modern British Education in Dynamic Conditions of Intensive Technological Transformations.
3. Mekhovych Serhii (Professor, DSc, National Technical University “Kharkiv Polytechnic Institute”, Kharkiv, Ukraine). On the “Energy Saving. Power Engineering. Energy Audit.” Journal.
4. Maslak Mariia (Associate Professor, PhD, National Technical University “Kharkiv Polytechnic Institute”, Kharkiv, Ukraine). Innovation Technologies in Business.

Participants of National Technical University “Kharkiv Polytechnic Institute”, Kharkiv, Ukraine:

1. Bocharov Vitaly, Kalinichenko Viktor. Prospects for the Development of Engineering Bureaus in Ukraine and the Implementation of Their Main Tasks.
2. Bobovnikov Oleksandr. The Process of Soldering Quartz Glass to a Stainless Steel and Aluminum Alloy Housing Using an Ultrasonic Soldering Station.
3. Brovarnyk Oleksii. Use of Web Technologies to Collect and Process Data on Sociodynamic Processes.
4. Chernyshenko Olena. Development of Methods for Planning the Cost of Industrial Production and Ways of Reducing It.
5. Demchuk Roman. Improvement Flow Parts of New Types of Hydro Turbines Based on Numerical Modelling of Spatial Flow.
6. Drepin Ivan. Modern Methods in Enterprise Development Management.
7. Dzenis Sergii. Research of the Impact of Energy Efficiency Increasing on the Thermal State of Medium-Power Asynchronous Motors.
8. Gudymenko Viacheslav. Management of the Company's Competitiveness by Increasing the Effectiveness of the Assortment Policy in Modern Market Conditions.
9. Hadaieva Yuliia. Bio-Packaging in the Food Industry as the Basis for Environmental Conservation.
10. Klimov Maksym. Enhancing Educational Innovation through Marketing Strategies.
11. Kolodii Ivan. Improvement of Traction and Power Characteristics of Locomotives with Suspension Control of Traction Power.
12. Kolontaievskiy Roman. Development of Innovation Process in Ukraine in the Context of Knowledge Economy Formation.
13. Kopytsia Andrii. Prospects for the Development of the Information Technology Market in Ukraine.
14. Kriuchkova Valeriia. General Environmental Aspects of the Textile Industry.
15. Kuzmyskyi Kostiantyn. Digitalization as the Basis of the EU Economic Policy in Creating a Single International Digital Market.
16. Malokhvii Eduard. Information Processing Method on End Devices of Industrial Internet of Things.
17. Manilich Mykola. Development of an Automated System for Analyzing the Stress-Strain State of the Grain Storage Building, Taking into Account the Admissibility of Grain Batches Placement.

BREAK (30 minutes)

18. Mekhovych Yelyzaveta. Modern Tendencies of Cryptocurrency Market
19. Mekhovych Kateryna. Mechanisms of Using Foresight Methods to Increase the Efficiency of Innovative Marketing.
20. Mezentsev Sergii. Methods for Producing Ferroalloys from Waste from Machine-Building Enterprises.
21. Monastyrskiy Mykyta. Blind Signal Separation Methods and Applications.
22. Oborina Anastasia. Development of Anti-Crisis Program of the Enterprise on the Basis of Digital Marketing.
23. Pakhomov Maksym. Features of the World's Insurance Markets.
24. Podobin Andrii. Improvement of Methods for Modelling Repair Cycles of NPP Power Units on the Basis of the Equipment Functional State Operational Characteristics.
25. Prykhodko Nazar. Study of Pipe's Natural Vibrations Under Various Fixation Conditions.
26. Prylipa Artem. Methods of Web Optimization for Low-Bandwidth and Limited Networks.

27. Rybakov Vadym. Analysis of the Influence of Requirements for Explosion-Proof Equipment on Its Design Processes.
28. Sapalskyi Oleksandr. Asynchronization in Javascript and Asynchronous State in the Application.
29. Savenkov Dmytro. Studying the Working Process of High-Head Reversible Hydraulic Machines.
30. Savchenko Roman. The Stock Market of Ukraine and Its Relationship in the Stock Markets of the World Using the Example of Correlation of Stock Indices.
31. Skrypnyuk Rostyslav. Development of Control Algorithms for Modern Inverters or Converters of Energy Storage Systems with Functions of Virtual Synchronous Machines.
32. Umanskiy Oleksandr. Integrating Steganography for Enhancing Security in Banking Business Processes.
33. Vozniuk Yegor. AI Role in Professional and Everyday Life.
34. Zhigalov Mikhaylo. Models and Methods of the Security of Socio-Cyber-Physical Systems.