General Information and Research Activities

# General Information

- Specialty: Economics
- Grants Bachelor and Master Degrees on two specializations:
  - Digital Economy
  - Marketing Management
- Faculty:
  - 3 D.Sc., full professors
  - 7 Ph.D., associate professors
- Head: Viktor Zaruba, <u>vza@kpi.kharkov.ua</u>
- Contact person: Oleg Melnikov, <u>osmelnikov@gmail.com</u>
- Web site: <a href="http://eim.kh.ua/ekmm/">http://eim.kh.ua/ekmm/</a>

# Research Areas

### **Economics**

- Auction theory and incentivecompatible mechanisms for efficient resource allocation
- Public procurement mechanisms, policies, and regulation
- Group behavior models
- Estimating the size and development of shadow economy
- Modeling of the tax-paying behavior
- Financial and budgetary regulation of the regional development
- Differentiated products demand systems
- Dynamic structural models in industrial organization

# Management

- Multi-level resource allocation and management of the organization potential
- Marketing of the partnership relations
- Strategic management of marketing activities of the firm
- Management of innovations
- Economic security of the enterprise
- Market infrastructure
- Consumer behavior
- Industrial marketing
- Risk management

# International Projects

- ◆ "Innovation Laboratories: using an open innovation learning platform & action research in enterprise education in order to enhance the engagement & innovative capabilities of Universities in Post-Socialist Societies" (№530429-TEMPUS-1-2012-1UK-TEMPUS-JPHES)
- Duration: 2012-2015
- Main Results:
  - ➤ Innovation Laboratory was created at NTU KhPI on the basis of the Department of Economic Cybernetics and Marketing Management
  - "IdeasMarket" online business game was developed and integrated into the curriculum
  - Innolab Web platform was developed for enhancing cooperation between the university and local enterprises
  - > Student textbook "Innovation Entrepreneurship: Creativity, Commercialization, Ecosystem" was prepared and published
- Partners:

University of Bradford, UK Aristotle University, Greece Tallinn Technological University, Estonia University of Grodno, Belarus Kiev-Mohyla Academy, Ukraine, and others.

# Selected Publications

- V. Zaruba. System-resource approach to enterprise management. Models of estimation and analysis of complex social and economic systems. Ed. by V.S.Ponomarenko et al. – Kharkiv: INZHEK, 2013. – pp.354-371. (in Russian)
- N. Kuz'mynchuk. Financial and Budgetary Regulation of Regional Development: Approaches, Methods, and Implementation. – Lviv: Institute of Regiuonal Studies of the Ukrainian Academy of Sciences. -2012. — 624 p. (in Ukrainian)
- D. Raiko. Development of Strategic Management of Marketing Activity of an industrial enterprises. – Lviv: Scientific Bulletin of Lviv Polytechnic University. – 2014 -Nº811. – pp. 287-292.
- O. Melnikov. Demand for Differentiated Durable Products: The Case of the U.S. Computer Printer Market. – Economic Inquiry. – Vol.51, No. 2, April 2013. – pp.1277-1298.
- G. Grinberg, L. Lyubchyk. Nonlinear dynamic system kernel based reconstruction from time series data. XXVII International Conference "Problem of decision making under uncertainties", May 23-27, 2016, Tbilisi-Batumi, Georgia.
- T. Kutsenko., O. Zhyhor. Providing of innovative development of regions of Ukraine: financial aspect. - International Journal of Sustainable Development. - 2014. - №17. - p. 69-75.

# Potential for Joint Projects

We see a great potential for cooperation in the following fields:

- Public Economics
- Applied Economics
- Operations Management
- Marketing
- Digital Economy

# in areas such as:

- Joint research projects
- Capacity building in economic education on the undergraduate and graduate levels
- Academic mobility of students and teachers

through various international and national programs, such as Horizon2020, Erasmus KA1 and KA2, DAAD, and others.

# Possible Topics for Joint Projects

#### Research Topics:

- Management of Regional Industrial Development: Economic and Social Dimensions
- Enhancing Efficiency of Public Procurement Mechanisms in Digital Age
- Strategic Management of Marketing Activities of the Enterprise

#### Capacity Building in Economic Education:

- Development of curriculum for Digital Economy specialization
- Harmonization of doctoral programs in Economics with Bologna system
- Development of teaching programs in areas such as data mining, big data analysis, empirical economic research, etc.

#### Academic mobility:

- Student exchanges
- Teacher professional development programs
- Visiting professors exchanges
- We can offer English-language courses in areas such as Time Series Analysis, Empirical Industrial Organization, Dynamic Programming, Simulation Models, Auction Theory and Mechanism Design, and others.