



National Technical University of Ukraine  
 “Igor Sikorsky Kyiv Polytechnic Institute”  
 Faculty of Management and Marketing

**DEPARTMENT OF ECONOMIC CYBERNETICS**



## EPP ECONOMIC ANALYTICS

### PROFESSIONS

- economist-analyst
- economic adviser
- investment analyst
- digital analyst
- business analyst
- Data-analyst
- economist of a computing center
- analyst in banking institutions
- economic consultant

### PROSPECTS

«Future of Work 2030»

Analytics and Big Data  
 in sales, marketing, human resources  
 management

Program is aimed at training highly qualified professionals who have:

- exceptional skills in**  
 economic diagnostics  
 economic, scenario, strategic and project analysis  
 economic analytics of big data (Big Data Analytics)
- information systems**  
 of business analytics (Business Intelligence)
- tools:**  
 Data Science  
 descriptive, predictive, prescriptive analytics  
 Digital Analytics  
 mathematical and computer modelling

**He who owns the information, owns the world**

***Nathan Rothschild***

**AN ANALYST OWNS THE ECONOMIC UNIVERSE!!**

*Department of Economic Cybernetics*



**Master**

**ECONOMIC  
 ANALYTICS**



# ECONOMIC ANALYTICS



**SKILLS**



## UNIQUENESS

### Synergy

- ❑ Economic analytics, diagnostics, prognostication, strategizing
- ❑ Mathematical modelling of economic systems and processes
- ❑ Computer systems of analytical decision-making support

### Ability:

- to solve economic and research problems
- to make optimal economic decisions based on the analysis of economic processes, data and results
- to develop algorithms and implement strategies, programs and projects
- to apply information and analytical systems

## COMPETENCE

- Economic diagnostics of the retrospective, current and prospective state of economic systems
- Big Data Analytics
- Digital analytics
- Visualisation of economic information
- Analytics of programs and projects, economics of project activity, planning of start-ups
- Strategic analysis, strategizing, examination of strategic decisions
- Scenario analysis and risk analytics
- Mathematical, simulation, statistical, computer modelling of economic trends and development prospects
- Information systems of business intelligence (Business Intelligence)
- Processing, analysis and management of economic information
- Machine Learning, Deep Learning, Artificial Intelligence
- Software products, applications, information and analytical technologies, computer systems of analytical decision-making support







# ECONOMIC ANALYTICS



**DISCIPLINES**



## ANALYTICS

### MATHEMATICAL METHODS AND MODELLING

Scenario analysis and assessment of economic risks

Modelling of socio-economic systems and processes

### ECONOMIC TOOLS

The economic measurement of sustainable development

Development of start-up projects

Economic diagnostics and decision-making

Economics of project activity

Strategizing of economic development

### INFORMATION SYSTEMS AND IT-ANALYTICS

Economic analytics of Big Data (Big Data Analytics)

Information systems of business analytics (Business Intelligence)



*Scientific research in economics*

*Practical course in a foreign language for business communication*



# ECONOMIC ANALYTICS



## DISCIPLINES

### INDIVIDUAL TRAJECTORY OF STUDYING

#### MATHEMATICAL METHODS AND MODELLING

- Applied econometrics
- Interval modelling of economic processes
- Multi-objective optimization of economic decisions
- Actuarial calculations

#### ECONOMIC TOOLS

- Foresight and forecasting methods
- Analytics of financial markets
- Intellectual economy
- Economic politics
- Analysis and management of a company's value
- Economic security
- Business engineering
- Product analytics

#### INFORMATION SYSTEMS AND IT-ANALYTICS

- Visualisation of economic information
- Deep learning in economics
- Digital analytics
- Machine learning and intelligent data analysis



#### Workshops

- Digital platforms for monitoring economic data
- Creation and development of IT products in economic analytics
- Integrated reporting





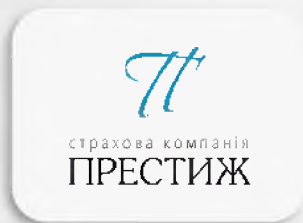


# EMPLOYMENT OF GRADUATES

## COMPANIES, ENTERPRISES, ORGANISATIONS



STATE, INTERNATIONAL, SCIENTIFIC ORGANISATIONS, INDUSTRIAL, INSURANCE, FINANCIAL COMPANIES, OTHER BUSINESS STRUCTURES



IT-компанія «Фанмедіа»

«Компанія ОДМ»

«E-NEXT-UKRAINE»

«YARDWAY Limited»

«Whale Up»

