



Co-funded by the  
Erasmus+ Programme  
of the European Union



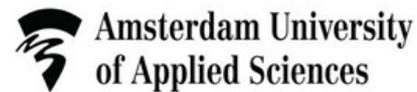
Reforming Master Programmes in Finance in Armenia and Moldova / REFINe

An Erasmus+ Capacity Building Project (2017-2020)

# THE COURSE “Digital Economy” OVERVIEW

*Russian- Armenian University*

*Teacher: Ani Avetisyan, PhD in Economics*



# BASIC INFORMATION



<b>TITLE OF THE COURSE</b>	Digital Economy
<b>TEACHER</b>	Ani Avetisyan
<b>YEAR OF THE COURSE</b>	2
<b>SEMESTER OF THE COURSE</b>	3
<b>LANGUAGE</b>	Russian
<b>NUMBER OF ECTS CREDITS</b>	4

# LEARNING OUTCOMES



After completing the course, students are expected to:

## Know:

- the subject and specifics of digital economy
- basic theoretical concepts of digital economy

## Be able to:

- Analyse the relevant issues of digital economy
- Deeply understand the principles of the functioning of digital economy
- Apply theoretical concepts to practical examples
- Deeply understand the principles of Business Intelligence
- Apply data analyses tools to business problems.

# SYLLABUS OF THE COURSE



Topic	Weeks
Origins of digital economy.	1-2
Technological bases of digital economy.	3
Business intelligence	4
Digital transformation of economy	5-6
Trade and economic activities in digital economy	7-8

# SYLLABUS OF THE COURSE



Topic	Weeks
Development of labor relations in digital economy.	<b>9-10</b>
The functions of the state in digital economy	<b>11-12</b>
Legal framework for transition to digital economy.	<b>13-14</b>
Criteria for assessment of the degree of digital economy development.	<b>15-16</b>
Development of digital economy in Armenia	<b>17-18</b>



# WEEKS 1-2

(1 for lecture/1 for case studies and discussion)

## Topic 1. Origins of digital economy

- Introduction to the course
- Definition of “digital economy”
- Historical framework
- Economic background of digital economy
- Criteria for assessment of digital economy development

# WEEK 3



## Topic 2. Technological bases of digital economy

- Fourth Industrial Revolution
- Cloud computing, big data and internet of things
- Blockchain and cryptocurrency

# WEEK 4



## Topic 3. Business Intelligence

- Financial decision making
- Tableau as a tool for data analysis

# WEEKS 5-6

(1 for lecture/1 for case studies and discussion)



## Topic 4. Digital transformation of economy

- Information economics
- Changes in production
- Production function. Competitiveness and new economic relations
- Economic efficiency in digital economics

# WEEKS 7-8

(1 for lecture/1 for case studies and discussion)



## Topic 5. Trade and economic activities in digital economy

- Globalization and digital economy
- New trends in trade: e-commerce, sharing economy, digital economy
- Doing business in digital economy

# WEEKS 9-10

(1 for lecture/1 for case studies and discussion)



## Topic 6. Development of labor relations in digital economy

- New paradigm of the labor market. Education and labor market. The future of employment in digital economy

# WEEKS 11-12

(1 for lecture/1 for case studies and discussion)



## Topic 7. The functions of the state in digital economy

- The role of government in digital economy
- Institutional framework
- Government interventions
- Privacy regulations

# WEEKS 13-14

(1 for lecture/1 for case studies and discussion)



## Topic 8. Legal framework for transition to digital economy

- Institutional framework
- Digital security

# WEEKS 15-16

(1 for lecture/1 for case studies and discussion)



## Topic 9. Criteria for assessment of the degree of the development of digital economy

- Main indexes of digital economy development
- Advantages and disadvantages of the existing methods
- Measuring digital economy in Armenia

# WEEKS 17-18

(1 for lecture/1 for case studies and discussion)



## Topic 10. Development of digital economy in Armenia

- Current trends in economic development. Level of digitalization. Education and labor market. The future of digital economy in Armenia

# TEACHING METHODOLOGY



Teaching methodology is mostly close to teacher-centred approach to learning, nevertheless, student`s class participation is equally important.

- The following methods will be used in this course:
  - ✓ Lectures
  - ✓ Discussions
  - ✓ Workshops
  - ✓ Self-study

# LABOUR MARKET RELEVANCE



- Course is developed in accordance with labor market needs. This course is envisaged to give deeper understanding of global digital processes in regard with their link to the labor market and education. This will give students an opportunity to adjust their skills in accordance with the existing demand.

# ASSESSMENT AND GRADING



- There are two forms of assessment within the course: paper and group work on a research project.
- Grading system includes 2 components:
  - ✓ Paper – 50%
  - ✓ Research project (team work) – 50%

# REFERENCES



- Druica E. Digital Economy Innovations and Impacts on Society. Information Science Reference, 2012. 302p.
- Xu, Min & David, Jeanne & Kim, Suk. (2018). The Fourth Industrial Revolution: Opportunities and Challenges. International Journal of Financial Research. 9. 90. 10.5430/ijfr. v9n2p90.
- Hussin, Anealka. (2018). Education 4.0 Made Simple: Ideas For Teaching. International Journal of Education and Literacy Studies. 6. 92. 10.7575/aiac.ijels.v.6n.3p.92.
- Leading through the Fourth Industrial Revolution Putting People at the Centre. (2019). White paper.
- Brynjolfsson, E. and McAfee, A. (2014). The Second Machine Age: Work, Progress, and Prosperity in a Time of Brilliant Technologies. New York: W. W. Norton & Company.

# REFERENCES



- Tapscott, D. (1995). The Digital Economy: Promise and Peril in the Age of Networked Intelligence. McGraw-Hill; 1st edition. 368p.
- Schwab, K. (2016). The Fourth Industrial Revolution. World Economic Forum,  
<https://www.weforum.org/about/the-fourth-industrial-revolution-by-klaus-schwab>
- SADOVAYA, E.S. (2018). Digital economy and a new paradigm of the labor market. World Economy and International Relations. 62. 35-45. 10.20542/0131-2227-2018-62-12-35-45.
- Taplin J. Move Fast and Break Things: How Facebook, Google, and Amazon Cornered Culture and Undermined Democracy. Little, Brown and Company, 2017.
- Goodman M. Future Crimes: Inside the Digital Underground and the Battle for Our Connected World. Anchor; Reprint edition. 2016, 608p.



# REFERENCES

- Brynjolfsson, E., Kahin, B. (Eds.), 2000. Understanding the Digital Economy: Data, tools, and research. MIT Press, Cambridge, Mass.
- Frey, C.B., Osborne, M.A., 2017. The future of employment: How susceptible are jobs to computerisation? Technological Forecasting and Social Change 114, 254–280.
- Highsmith, J., Luu, L., Robinson D. EDGE: Value-Driven Digital Transformation (2019).  
<https://www.amazon.com/EDGE-Value-Driven-Transformation-Jim-Highsmith/dp/0135263077>

# COURSE ASSIGNMENT 1



- **Individual work:** Writing Paper (literature review) on digital transformation of the global economy (1500-2000 words)

# COURSE ASSIGNMENT 2/OR CASE STUDY DESCRIPTION



- Team Work: Data Analytics Dashboard and results interpretation (for any firm, with the use of Tableau)

# COURSE ASSIGNMENT 2/OR CASE STUDY DESCRIPTION



- Data Analytics Dashboard: example of outcome on Tableau

<https://www.tableau.com/products/cloud-bi>



**THANKS FOR ATTENTION**

**[ani.avetisyan@rau.am](mailto:ani.avetisyan@rau.am)**