**COURSE OUTLINE**

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| 1. **Information about the program** | |
| **1.1** Higher education institution | **“Alexandru Ioan Cuza” University of Iaşi** |
| **1.2** Faculty | **Faculty of Economics and Business Administration** |
| **1.3** Cycle of study | **Bachelor, Master and Youth Researchers** |
| **1.4** Study program / Qualification | **Summer School**  „European Smart Cities for Sustainable Development (SmartEU)”  Project no. 620415-EPP-1-2020-1-RO-EPPJMO-MODULE. |

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| **2. Information about the course** | | | | | | | |
| **2.1** Course title | | | **FOSTERING SMART AND INCLUSIVE GROWTH ACROSS EU** | | | | |
| **2.2** Course coordinator | | | Senior researcher, PhD. **Ana Iolanda VODĂ**  Assoc. Prof., PhD. Hab. **Laura-Diana RADU** | | | | |
| **2.3** Year of study | All years of study | **2.4** Semester | **2** | **2.5** Type of evaluation\* | **M** | **2.6** Course status\*\* | **O** |

\* *MT-mid-term, O-oral exam, E-exam, M-mixed;* \*\* *C-compulsory/o-optional/E-elective*

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| **3. Estimated time allocation** (hours per semester and teaching activities) | |
| Time allocation | h |
| Study based on course book, course materials, bibliography and other | 20 |
| Supplementary study in the library, on electronic platforms and on the field | 12 |
| Preparing seminars/laboratories, assignments, papers, portfolios and essays | 12 |
| Tutorship | 4 |
| Examination | 2 |
| Other activities |  |
| Total | 50 |

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| **4. Prerequisites** (if applicable) | |
| **4.1** Referring to curriculum | **Not necessary** |
| **4.2** Referring to competences | **Not necessary** |

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| **5. Conditions** (if applicable) | |
| **5.1** For the course | **Not necessary** |
| **5.2** For the seminar / laboratory | **Not necessary** |

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| **6. Specific competences accumulated** | |
| **Professional competencies** | C1: The course will enforce students with the knowledge about the era of on-demand work in smart cities, about the employment crises and the challenges among youth in different EU countries.  C2: The students will learn about the importance of information technologies and the IT skills necessary for increasing youth employability in EU countries.  C3: The students will debate on European Best Practice in shaping and enforcing labour conditions. |
| **Transversal competencies** | CT 1: Self-training need and identifying the resources and means for personal and professional training development in order of insertion and adaptation to labour market requirements.  CT 2: Fulfilment term, rigorous, efficient and accountable professional tasks with ethical principles and professional ethics. |

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| **7. Course objectives** (based on specific competencies accumulated) | |
| **7.1 General objective** | The students will gain solid knowledge on EU related issues, especially on the potential of EU economies to attained sustained growth over medium and long term |
| **7.2 Specific objectives** | After successfully finalizing this course, students will be able to:   1. Achieve adequate knowledge in the field of economic growth and competitiveness in order to understand the importance of macroeconomic stability, institutions and technologies to achieve sustained development; 2. Gain knowledge on the application of new technologies to city challenges and smart city solutions; 3. Have the opportunity to discuss cases and to decide which solution can be taken in a specific issue. |

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| **8. Content** | | | |
| **8.1** | **Course** | **Teaching methods** | **Observations**  (time) |
| 1. | **I.1** **Economic growth and competitiveness in EU**  I.1.1Macroeconomic environment and stability;  I.1.2 Institutions and growth;  I.1.3 Technological progress;  I.1.4 Innovation versus imitation; | Interactive course, heuristic conversation, problem solving method | 20 hours |
| 2. | **I.2 Smart and Inclusive Growth**  I.2.1 Competitiveness for Growth and Jobs;  I.2.2 Competitiveness of Enterprises and SMEs;  I.2.3 Employment and Social Innovation; | Interactive course, heuristic conversation, problem solving method | 18 hours |
| 3. | **I. 3 Fostering innovation and citizen engagement in smart cities development**  I.3.1 Introduction to Smart Urban Infrastructures and Smart Cities across EU  I.3.2 Smart cities - Ranking of European medium-sized cities;  I.3.3 How to become a Smart city and generating more economic benefits. | Interactive course, heuristic conversation, problem solving method | 12 hours |
| **Bibliography**   1. Ahvenniemi, H., Huovila, A., Pinto-Seppä, I., & Airaksinen, M. (2017). What are the differences between sustainable and smart cities?. *Cities*, *60*, 234-245. 2. Albino, V., Berardi, U., & Dangelico, R. M. (2015). Smart cities: Definitions, dimensions, performance, and initiatives. *Journal of Urban Technology*, *22*(1), 3-21. 3. AL-Masri, A. N., Ijeh, A., & Nasir, M. (2019). Smart City Framework Development: Challenges and Solutions. In *Smart Technologies and Innovation for a Sustainable Future* (pp. 325-331). Springer, Cham. 4. Angelidou, M., Psaltoglou, A., Komninos, N., Kakderi, C., Tsarchopoulos, P., & Panori, A. (2017). Enhancing sustainable urban development through smart city applications. *Journal of Science and Technology Policy Management*. 5. Artmann, M., Kohler, M., Meinel, G., Gan, J., & Ioja, I. C. (2019). How smart growth and green infrastructure can mutually support each other—A conceptual framework for compact and green cities. *Ecological indicators*, *96*, 10-22. 6. Barnett, J. (2018). *Smart growth in a changing world*. Routledge. 7. Batabyal, A. A., & Nijkamp, P. (2019). Creative capital, information and communication technologies, and economic growth in smart cities. *Economics of Innovation and New Technology*, *28*(2), 142-155. 8. Boarini, R., Causa, O., Fleurbaey, M., Grimalda, G., & Woolard, I. (2018). Reducing inequalities and strengthening social cohesion through inclusive growth: a roadmap for action. Economics Discussion Papers, No 2018-7. *Kiel Institute for the World Economy. http://www. economics- ejournal. org/economics/discussionpapers/2018-7* 9. Deeming, C., & Smyth, P. (2017). Social investment, inclusive growth that is sustainable and the new global social policy. *Reframing Global Social Policy: Social Investment for Sustainable and Inclusive Growth*, 11. 10. Ghosh, S., Byahut, S., & Masilela, C. (2019). Metropolitan Regional Scale Smart City Approaches in a Shrinking City in the American Rust Belt—Case of Pittsburgh, Pennsylvania. In *Smart Metropolitan Regional Development* (pp. 979-1021). Springer, Singapore. 11. Harris, R. (2017). Regional competitiveness and economic growth: the evolution of explanatory models. *Handbook of Regions and Competiveness: Contemporary Theories and Perspectives on Economic Development, Cheltenham: Edward Elgar*, 80-116. 12. Huggins, R., & Thompson, P. (Eds.). (2017). *Handbook of regions and competitiveness: contemporary theories and perspectives on economic development*. Edward Elgar Publishing. 13. Medeiros, E. (2017). From smart growth to European spatial planning: a new paradigm for EU cohesion policy post-2020. *European Planning Studies*, *25*(10), 1856-1875. 14. Neirotti, P., De Marco, A., Cagliano, A. C., Mangano, G., & Scorrano, F. (2014). Current trends in Smart City initiatives: Some stylised facts. *Cities*, *38*, 25-36. 15. Simionescu, M., Lazányi, K., Sopková, G., Dobeš, K., & Adam, P. B. (2017). Determinants of economic growth in V4 countries and Romania. *Journal of Competitiveness*, *8*(1). 16. Tukker, A., & Tischner, U. (Eds.). (2017). *New business for old Europe: product-service development, competitiveness and sustainability*. Routledge. | | | |

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| **9. Bridging course content with the expectations of the community, professional associations and representative employers in the field of the program** |
| After each Summer School, the course content is discussed with the students, teachers and representatives of the business environment during the research and scientific events of the JM Project in order to receive feedback (on-line, anonymous) about the course structure, teaching methods, as well as strengths / weaknesses (after the final evaluation) and to increase the reliability of the content to be adapted at scientific developments and practical implications. |

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| **10. Evaluation** | | | |
| **Type of activity** | **10.1 Evaluation criteria** | **10.2 Evaluation methods** | **10.3 Allocation to the final grade (%)** |
| **10.4** Course | Theoretical and applied knowledge | **Attendance and active participation** (2 points/ attendance + 4 points for active participation): 40% of final grade  **Team project:** empirical and exploratory research on a topic at students’/researchers’ choice, related to the topics of the course: 60% of final grade | 100% |
| **10.5** Evaluation conditions | Group discussions and analysis of case studies are highly encouraged; students and young researchers are encouraged to work in groups of 4 - 5 in order to elaborate comprehensive analysis on various subjects related to the course topics. | The completion of the requirements will allow students to receive the **Jean Monnet Certificate** | - |
| **10.6** Minimal performance standard | | | |
| Obtaining 6 points (out of 10). | | | |

Date Course coordinators

May 2021

Senior researcher, PhD **Ana Iolanda Voda**

Assoc. Prof. PhD. Habil. **Laura-Diana Radu**