

|   |  |  |                 |                         |       |                          |                       |                      |   |                  |   |  |
|---|--|--|-----------------|-------------------------|-------|--------------------------|-----------------------|----------------------|---|------------------|---|--|
| Course title  | Sustainable cities   |  |                 |                         |       |                          | ECTS code             | 14.03.5372           |   |                  |   |  |
|   |  |  |                 |                         |       |                          | ECTS credits          | 5                    |   |                  |   |  |
|   |  |  |                 |                         |       |                          | max. students         | 20                   |   |                  |   |  |
| Name of unit administrating study   | OTHER  | Field of study   | Economics/MSG** | Field of specialisation | NONE; |                          |                       |                      |   |                  |   |  |
| Teaching staff  | Marcin Wołek, Associate Professor ; Jacek Zaucha, Professor ; Jarosław Kempa, Ph.D.  |  |                 |                         |       |                          |                       |                      |   |                  |   |  |
| Number of hours   |  |  |                 |                         |       |                          |                       |                      |   |                  |   |  |
| Lectures  | 0  | Classes  | 0               | Tutorials               | 30    | Laboratory               | 0                     | Seminars             | 0 | Language classes | 0 |  |
| Forma aktywności  |  |  |                 |                         |       |                          | Year&Type of studies* | 3 SS1, 1 SS2, 2 SS2, |   |                  |   |  |
| Hours with the participation of the academic teacher (including office hours, exams, others): |  |  |                 |                         | 38    | Semester:                |                       | 6, 2, 4,             |   |                  |   |  |
| Hours without the participation of the academic teacher (student's self-study, homeworks):    |  |  |                 |                         | 13    | Type of course:          |                       | optional             |   |                  |   |  |
| Total number of hours:  |  |  |                 |                         | 51    | Language of instruction: |                       | English              |   |                  |   |  |
| Teaching form   | in-class learning  |  |                 |                         |       |                          |                       |                      |   |                  |   |  |
| Teaching methods  | Lectures including multimodal presentations, Discussion, questioning, Individual projects, Collaborating, group activities, Case studies, Visiting Pomeranian Science and Technology Park in Gdynia (case study for transformation of urban functions) |  |                 |                         |       |                          |                       |                      |   |                  |   |  |
| Prerequisites (required courses and introductory requirements)                                |  |  |                 |                         |       |                          |                       |                      |   |                  |   |  |
| Required courses  | Macroeconomics, microeconomics.  |  |                 |                         |       |                          |                       |                      |   |                  |   |  |
| Introductory requirements   | Basic knowledge in macro and microeconomics, socio-economic geography  |  |                 |                         |       |                          |                       |                      |   |                  |   |  |
| Assessment method, forms and criteria   |  |  |                 |                         |       |                          |                       |                      |   |                  |   |  |
| Assessment method   | Course completion (graded)   |  |                 |                         |       |                          |                       |                      |   |                  |   |  |
| Assessment criteria   | Final presentation evaluated as following:<br>91 - 100 pts - 5 (A)<br>81-90 pts - 4,5 (B+)<br>71-80 pts - 4 (B)<br>61-70 pts - 3,5 (C+)<br>51-60 pts - 3 (C).  |  |                 |                         |       |                          |                       |                      |   |                  |   |  |
| Course objectives   |  |  |                 |                         |       |                          |                       |                      |   |                  |   |  |
| To introduce the student to the concept of sustainable urban development.                     |  |  |                 |                         |       |                          |                       |                      |   |                  |   |  |
| To indicate relations between different stakeholders in the city.                             |  |  |                 |                         |       |                          |                       |                      |   |                  |   |  |
| To introduce the student to the selected areas of urban development.                          |  |  |                 |                         |       |                          |                       |                      |   |                  |   |  |
| Learning outcomes   |  |  |                 |                         |       |                          |                       |                      |   |                  |   |  |
| Knowledge   | E1_W02   | has advanced knowledge of cities and different types of public entities and institutions.  |                 |                         |       |                          |                       |                      |   |                  |   |  |
|   | E1_W04   | knows the types of economic and social ties of cities and regularities governing them.   |                 |                         |       |                          |                       |                      |   |                  |   |  |
|   | MSG1_W04   | has an advanced knowledge of cities and essential elements of their subsystems.  |                 |                         |       |                          |                       |                      |   |                  |   |  |
|   | MSG1_W08   | knows and understands the fundamental dilemmas of contemporary cities, including the strategy of sustainable development, smart and resilient city concept . |                 |                         |       |                          |                       |                      |   |                  |   |  |
| Verification of learning outcomes - Knowledge   |  |  |                 |                         |       |                          |                       |                      |   |                  |   |  |
| Outcomes  |  |  |                 |                         |       |                          |                       |                      |   |                  |   |  |

|          | written exam | oral exam | test | essay/paper /portfolio | tasks/ homeworks | individual presentation | group presentation | classroom activities | classroom discussion | individual project | group project |
|----------|--------------|-----------|------|------------------------|------------------|-------------------------|--------------------|----------------------|----------------------|--------------------|---------------|
| E1_W02   |              |           |      |                        |                  |                         |                    | X                    | X                    |                    |               |
| E1_W04   |              |           |      |                        |                  |                         | X                  | X                    | X                    |                    | X             |
| MSG1_W04 |              |           |      |                        |                  |                         |                    | X                    | X                    |                    |               |
| MSG1_W08 |              |           |      |                        |                  |                         | X                  | X                    | X                    |                    | X             |

|        |          |  |  |  |  |  |  |  |  |  |  |
|--------|----------|--|--|--|--|--|--|--|--|--|--|
| Skills | E1_U01   | is able to correctly interpret economic and social phenomena and apply knowledge of economics, finance and management sciences to explain economic phenomena related to cities.  |  |  |  |  |  |  |  |  |  |
|        | E1_U09   | is able to prepare written pieces in Polish and in a foreign language concerning detailed economic and social issues relating to cities, using specialist terminology, theoretical and methodological approaches, principles of collecting data from various sources, their description and interpretation, making inferences on the basis of scientific literature and factographic data, and making international comparisons. |  |  |  |  |  |  |  |  |  |
|        | E1_U13   | can interact and work in a group, taking on a variety of roles as urban decision-makers.   |  |  |  |  |  |  |  |  |  |
|        | MSG1_U01 | can correctly interpret and explain economic and social phenomena related to cities, analyse their causes, course and connections between them, using the acquired knowledge of economics, finance and international economic relations;   |  |  |  |  |  |  |  |  |  |
|        | MSG1_U10 | can take an active part in a debate on urban challenges, presenting his/her own viewpoint and supporting it with argumentation based on selected theories, opinions of various authors and/or statistical data related to cities.  |  |  |  |  |  |  |  |  |  |
|        | MSG1_U13 | is able to prepare presentations and oral statements on the subject of cities, using basic theoretical approaches, specialist terminology, principles of collecting data from various sources, their description and interpretation, and drawing conclusions on the basis of scientific literature.  |  |  |  |  |  |  |  |  |  |

**Verification of learning outcomes - Skills**

| Outcomes | written exam | oral exam | test | essay/paper /portfolio | tasks/ homeworks | individual presentation | group presentation | classroom activities | classroom discussion | individual project | group project |
|----------|--------------|-----------|------|------------------------|------------------|-------------------------|--------------------|----------------------|----------------------|--------------------|---------------|
| E1_U01   |              |           |      |                        |                  |                         | X                  | X                    | X                    |                    | X             |
| E1_U09   |              |           |      |                        |                  |                         | X                  | X                    |                      |                    | X             |
| E1_U13   |              |           |      |                        |                  |                         |                    | X                    | X                    |                    | X             |
| MSG1_U01 |              |           |      |                        |                  |                         | X                  | X                    | X                    |                    | X             |
| MSG1_U10 |              |           |      |                        |                  |                         | X                  | X                    | X                    |                    | X             |
| MSG1_U13 |              |           |      |                        |                  |                         | X                  | X                    | X                    |                    | X             |

|           |          |   |  |  |  |  |  |  |  |  |  |
|-----------|----------|---|--|--|--|--|--|--|--|--|--|
| Attitudes | E1_K01   | recognises the importance of knowledge of economics in the process of identifying and solving urban problems and of seeking expert advice in the event of difficulties in solving them independently.                       |  |  |  |  |  |  |  |  |  |
|           | E1_K03   | participates in the preparation of economic and social projects concerning cities, being able to reconcile legal, economic, ecological, political and social requirements.  |  |  |  |  |  |  |  |  |  |
|           | MSG1_K01 | is ready to recognise the importance of knowledge in the field of urban economics in the process of identifying and solving economic problems and to consult experts in case of difficulties in solving them independently. |  |  |  |  |  |  |  |  |  |
|           | E1_K03   | participates in the preparation of economic and social projects concerning cities; can reconcile legal, economic, ecological, political and social requirements.  |  |  |  |  |  |  |  |  |  |

**Verification of learning outcomes - Attitudes**

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| Outcomes | written exam | oral exam | test | essay/paper /portfolio | tasks/ homeworks | individual presentation | group presentation | classroom activities | classroom discussion | individual project | group project |
|----------|--------------|-----------|------|------------------------|------------------|-------------------------|--------------------|----------------------|----------------------|--------------------|---------------|
| E1_K01   |              |           |      |                        |                  |                         |                    | X                    | X                    |                    |               |
| E1_K03   |              |           |      |                        |                  |                         |                    | X                    | X                    |                    |               |
| MSG1_K01 |              |           |      |                        |                  |                         |                    | X                    | X                    |                    |               |
| MSG1_K03 |              |           |      |                        |                  |                         |                    | X                    | X                    |                    |               |

**Course contents**
**1. The process of urban development**

- 1.1. Cities in a historic context
- 1.2. Process of urban growth: industrial cities
- 1.3. Process of urban growth: post-industrial cities, resilient and sustainable cities

**2. City as a system**

- 2.1. Functions of the city
- 2.2. Stakeholders in the city
- 2.3. Conflicts in the city

**3. Cities: between micro and macro level of economics**

- 3.1. Theories of local economic development
- 3.2. Economic models of urban structure
- 3.3. Drivers of local economic performance

**4. Urban competitiveness**

- 4.1. Defining urban competitiveness
- 4.2. Quality of life
- 4.3. Workshop: Review of rankings of urban competitiveness

**5. Strategy of development - programming development of the sustainable city**

- 5.1. Strategic planning
- 5.2. Selected methods of strategic planning
- 5.3. Workshop: Review of selected strategies of development

**6. Scenarios of sustainable urban development**

- 6.1. The scenario concept
- 6.2. Using scenarios in urban planning & development
- 6.3. Workshop: Evaluation of scenarios

**7. Selected urban systems: housing**

- 7.1. Real estate market
- 7.2. Housing policy
- 7.3. Housing and architectural design

**8. Selected urban systems: logistics and mobility**

- 8.1. Urban transport system
- 8.2. Urban goods mobility
- 8.3. Urban passenger mobility

**9. Selected urban systems: public utilities**

- 9.1. Water supply

- 9.2. Sewage management
- 9.3. Heating and energy

**10. Urban environmental policy**

- 10.1. Environmental impact of urban development
- 10.2. Environmental limits of growth
- 10.3. Scenarios of the environmental adjustment - workshop

**11. Urban transformations**

- 11.1. The nature of the urban space
- 11.2. The transformation processes
- 11.3. Workshop - evaluation of the selected cases on urban transformations

**12. Metropolitan areas**

- 12.1. The process of metropolisation
- 12.2. Factors determining metropolisation process
- 12.3. Workshop: evaluation of selected metropolitan areas

**13. Challenges of urbanised world**

- 13.1. Challenges facing contemporary cities
- 13.2. Models of the future city
- 13.3. International networks of cities and regions

Recommended reading lists

**Basic literature:**

1. P. Newman, T. Neatley, H. Boyer: Resilient cities: responding to peak oil and climate change. Island Press, Washington 2009
2. Global Competitiveness Reports by World Economic Forum, current issues.
3. M. Wolek, K. Hebel: The quality of life in sustainable urban mobility planning. The case study of&hellip; [In:] RESEARCH PAPERS OF WROCLAW UNIVERSITY OF ECONOMICS AND BUSINESS 2019, vol. 63, nr 10

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\* SS1- undergraduate studies \* SS2 - graduate studies \* SDang - doctoral studies  
\*\* MSG - International Economic Relations