**SYLLABUS**

## 1. Information about the program

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| 1.1 Institution of higher education | „Babeş-Bolyai" University, Cluj-Napoca |
| 1.2 Faculty | Geography |
| 1.3 Department | Physical and Technical Geography |
| 1.4 Study area | Geography |
| 1.5 Level of study | Master |
| 1.6 Program of study | **Climate Change and Sustainable Development** |

## 2. Information about the course

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|---|---|---|---|---|---|---|---|
| 2.1 Title of the course | **Geography of Sustainable Development and SDG indices** | | | | | | |
| 2.2 Course taught by: | | | Dr. József Benedek, Professor | | | | |
| 2.3 Seminar by: | | | Dr. Kinga Ivan-Temerdek, Researcher | | | | |
| 2.4 Year of study | **I** | 2.5 Semester | **1** | 2.6 Method of assessment | **E** | 2.7 Type of course | **RQ** |

## 3. Time allocation (hours per semester of pedagogical activities)

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|---|---|---|---|---|---|
| 3.1 Hours per week | 4 | of which: 3.2 course | 2 | 3.3 seminar | 2 |
| 3.4 Total hours – semester | 56 | of which: 3.5 course | 28 | 3.6 seminar | 28 |

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| Time allocation | hours |
| Study for exams | 16 |
| Additional documentation in the library, on the internet and in the field and working on the semester project and presentation | 15 |
| Reading for the seminar and writing the projects | 10 |
| Tutoring | |
| Exam | 3 |
| Other activities | |

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| 3.7 Total hours for individual study | 44 |
| **3.8 Total hours per semester** | **100** |
| 3.9 Number of credits | 4 |

## 4. Prerequisites (if any)

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| 4.1 curriculum-related | - |
| 4.2 competence-related | - |

## 5. Other requirements (if any)

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| 5.1 for the course | • Classroom with desktop/laptop, projector and power point software, access to internet. |
| 5.2 for the seminar | • Computer room, Internet connection |

**6. Competencies**

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| **Generic competencies** | • C1 Ability to solve problems.<br>• C2 Ability to organize and plan ahead.<br>• C3 Ability to analyze, synthesize, interpret and communicate information.<br>• C4 Ability to create new ideas |
| **Specific competencies** | • CT 1 The student will be able to work with information resources in sustainable development.<br>• CT 2 The student will be able to use and describe the tools used to manage the sustainable development.<br>• CT 3 The student will be able to apply the gained knowledge in practice. |

**7. Course objectives**

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| 7.1 General goals | • Understanding of the key challenges and pathways to sustainable development: economic development that is also socially inclusive and environmentally sustainable. |
| 7.2 Specific objectives | • Introducing the students in the two dimensions of the sustainable development: analytical (economy-society (culture) - natural environment - politics), and normative (setting goals and objectives).<br>• Students will be able to address the central issues and problems associated with spatial data used for the localisation of SDGs.<br>• Students will extend their understanding of more specialized tools, designed to address the monitoring and measurement of SDGs. |

**8. Outline**

| **8.1 Course** | **Teaching method(s)** | **Observations** |
|---|---|---|
| Introduction: what is sustainable development? | • lecturing | 2 hours |
| Inequalities | • lecturing | 2 hours |
| A short history of economic development and inequalities | • lecturing | 4 hours |
| The MDGs and the end of extreme poverty | • lecturing | 2 hours |
| Growth within planetary boundaries | • lecturing | 4 hours |
| Education | • lecturing | 2 hours |
| Health | • lecturing | 2 hours |
| Sustainable food supply and the end of hunger | • lecturing | 2 hours |
| Sustainable cities | • lecturing | 4 hours |
| The Agenda 2030 and the 17 SDGs | • lecturing | 4 hours |
| **8.2 Seminar** | **Teaching method(s)** | **Observations** |
| Indicators for SDG 1 and 2 | • Instructor-led seminar | 4 hours |
| Indicators for SDG 3 and 4 | • Instructor-led seminar | 4 hours |
| Indicators for SDG 5 and 6 | • Instructor-led seminar | 4 hours |
| Indicators for SDG 7 and 8 | • Instructor-led seminar | 4 hours |
| Indicators for SDG 9 and 10 | • Instructor-led seminar | 4 hours |

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|---|---|---|
| Indicators for SDG 11 and 12 | • Instructor-led seminar | 4 hours |
| Indicators for SDG 13, 14, 15, 16 and 17 | • Instructor-led seminar | 4 hours |

**9. Bibliography**

SACHS, D., J. (2015) *The Age of Sustainable Development*. Columbia University Press.
BENEDEK J., CIOBANU S., MAN T. (2016) Hot spots and social background of urban traffic crashes: a case study in Cluj-Napoca (Romania). *Accident Analysis and Prevention*, 87:2, 117-126.
CEBOTARI, S., BENEDEK, J. (2017) Renewable energy project as a source on innovation in rural communities. *Sustainability*, 9:4, 509.
BENEDEK J., SEBESTYÉN T., BARTÓK B. (2018) Evaluation of renewable energy sources in peripheral areas and renewable energy-based rural development. *Renewable and Sustainable Energy Reviews*, 90:7, 516-535.
NAGY J., BENEDEK J., IVAN K., (2018) Measuring Sustainable Development Goals at local level. A case of a metropolitan area in Romania, *Sustainability*, 10:11, 3962.
BENEDEK J., TEMERDEK-IVAN K., TÖRÖK I., TEMERDEK A. HOLOBÂCĂ I.H., (2021) Indicator based assessment of local and regional progress towards the Sustainable Development Goals (SDGs): an integrated approach from Romania. *Sustainable Development*, 29:5, 860-875.

**11. Assessment and evaluation**

| Type of activity | 10.1 Criteria for assessment | 10.2 Method of assessment | 10.3 Percent of final grade |
|---|---|---|---|
| 11.1 Course | To be announced | Final exam | 35% |
| | | Final project and its presentation | 35% |
| 11.2 Seminar | To be announced | Individual projects (2) | 20% |
| | | Attendance and active participation | 10% |

| Date | Signature course lecturer | Signature seminar instructor |
|---|---|---|
| 04.05.2022 | Professor József Benedek, PhD | Researcher Kinga Ivan Temerdek, PhD |

Date departmental approval
12.10.2022

Signature department chair
Associate Professor Gheorghe Șerban, PhD