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Designing methodology and content for STEM curriculum enhancement for students



2 - Semester Curriculum (60 ECTS)

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Duration: 1 academic year

Target group: Professionals

Semester 1 (30 ECTS)

Mandatory Courses (24 ECTS):

- Foundations of Integrated STEM Education (Bulgaria) - 6 ECTS
- Curriculum and Assessment in STEM Higher Education (Uzbekistan) - 5 ECTS
- Digital Competences (Serbia) - 6 ECTS
- Ethics in Scientific Research (Turkey) - 5 ECTS
- Seminar (Turkey) - 2 ECTS

Elective Courses (Choose for 6 ECTS):

- Gamification and Learner Motivation (Bulgaria) - 3 ECTS
- Digital Visualization in STEM Education (Turkey) - 6 ECTS
- Language and Literacy in STEM Contexts (Uzbekistan) - 3 ECTS
- Comparative International STEM Education (Uzbekistan) - 3 ECTS

Semester 2 (30 ECTS)

Mandatory Courses (21 ECTS):

- Research Methods in STEM and Capstone Practicum I (Bulgaria) - 7 ECTS
- Activity Development in STEM Education (Turkey) - 7 ECTS
- Leadership and Change in STEM Education (Bulgaria) - 5 ECTS
- Inclusion in STEM Education (Turkey) - 2 ECTS

Elective Courses (Choose for 9 ECTS):

- Creativity and Innovation in STEM Fields (Turkey) - 3 ECTS
- Entrepreneurship in Education (Uzbekistan) - 3 ECTS
- Environmental Sustainability and STEM (Bulgaria) - 3 ECTS
- Artificial Intelligence in Learning and Education (Serbia) - 3 ECTS

Final Thesis (Mandatory)

- Capstone Research Project / Thesis - 6 ECTS

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