



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



Urban Resilience and Adaptation for India and Mongolia:
curricula, capacity, ICT and stakeholder collaboration to support green & blue infrastructure and nature-based solutions
619050-EPP-1-2020-1-DE-EPPKA2-CBHE-JP

E-COURSES DEVELOPMENT AND ITS USAGE AT THE NATIONAL UNIVERSITY OF MONGOLIA UNDER THE “URGENT” PROJECT, FUNDED BY ERASMUS+

The following 5 courses have been revised/developed and converted into full online form under the "Urban Resilience and Adaptation for India and Mongolia - [URGENT](#)" project, funded by the ERASMUS+ program of the European Union.

1. Application of RS and GIS to environmental research
Bachelor level, 6 ECTS

<https://online.num.edu.mn/courses/course-v1:NUM+ENVI402+2022/course/>

Developed by: [Professor O.Altansukh](#)
[Research associate M.Enkh-Uur](#)

2. Urban logistics
Bachelor level, 6 ECTS

<https://online.num.edu.mn/courses/course-v1:Urgent+ENEN301+2022-2023/course/>

Developed by: Senior lecturer B.Enkhchimeg

3. Sustainable development
Bachelor and master level, 6 ECTS

https://online.num.edu.mn/courses/course-v1:NUM+ENVI502+2022_T1/course/

Developed by: [Associate professor D.Davaadorj](#)
[Associate professor N.Oyunchimeg](#)

4. Environmental management
Doctoral level, 6 ECTS

<https://online.num.edu.mn/courses/course-v1:NUM+ENVI803+2022/course/>

Developed by: [Senior lecturer B.Ariunsanaa](#)

5. Nature conservation and protected area management
Doctoral level, 6 ECTS

<https://online.num.edu.mn/courses/course-v1:NUM+ENVI802+2022/course/>

Developed by: [Associate professor N.Oyunchimeg](#)

The contents of these e-courses are compared to the same or similar course content of the world's top 100 universities and have been improved by reviews from an employer, the related department, another university, and a European Union project expert. Also, it was taught in the 2022-2023 and 2023-2024 academic years as a test, and students were asked to take a survey at the end of the course. In total, 147 people attended the e-courses.

№	E-course name	2022-2023		2023-2024		Total
		student	LLL	student	LLL	
1	Application of RS and GIS to environmental research	15	6	9	3	33
2	Urban logistics	24	0	16	0	40
3	Sustainable development	26	0	1	9	36
4	Environmental management	7	0	9	2	18
5	Nature conservation and protected area management	5	0	8	7	20

At the meeting of the Curriculum Committee of the Department of Environment and Forestry Engineering on May 31, 2023, the e-courses were discussed and concluded/accredited that they can be used for further study programs.

Two out of the 5 online courses, namely "Application of RS and GIS to environmental research" and "Nature conservation and protected area management" are the first successful attempts in the university

that obtained copyright certificates from the Office of Intellectual Property, Mongolia. This opens up the opportunity to implement a full e-program and export the e-courses to other universities.

<p>Co-funded by the Erasmus+ Programme of the European Union</p> <p>Urban Resilience and Adaptation for Intra and Mongolia</p> <p>territorial capacity, ICT and stakeholder collaboration to support green & blue infrastructure and nature based solutions</p> <p>Revised course: Application of remote sensing and geographic information systems to environmental research</p> <p>- ECTS: 6.0 - 16 weeks - 150 hours</p> <p>Objective: The course objective is to provide knowledge about the basic concepts of geographic information systems (GIS) and remote sensing (RS) through lectures, and to teach its application in environmental research through</p> <p>NUM ENVI402</p> <p>Хүрээлэн буй орчны судалгаанд зайнаас тандан судлал ба газарзүйн мэдээллийн системийн хэрэглээ</p>	<p>Co-funded by the Erasmus+ Programme of the European Union</p> <p>Urban Resilience and Adaptation for Intra and Mongolia</p> <p>territorial capacity, ICT and stakeholder collaboration to support green & blue infrastructure and nature based solutions</p> <p>Revised course: Urban logistic</p> <p>- ECTS: 6.0 - 16 weeks - 150 hours - Full online - For bachelor level - Open for life-long learning</p> <p>Objective: This course covers different approaches to the management and operation of logistics and transportation in cities. At the end of the lecture, students will gain knowledge of transportation engineering which involves the operation, design, planning, and maintenance of transportation systems to help build safe, secure, and livable communities. Moreover, at the end of the course, students will obtain a basic understanding of the side effects of city logistics on the urban economy, environment, and human health, to achieve the mission of the program and understand the</p> <p>Urgent ENEN301</p> <p>Хотын ложистик</p> <p>Эхлэх: Sep 1, 2022</p>	<p>Co-funded by the Erasmus+ Programme of the European Union</p> <p>Urban Resilience and Adaptation for Intra and Mongolia</p> <p>territorial capacity, ICT and stakeholder collaboration to support green & blue infrastructure and nature based solutions</p> <p>Revised course: Sustainable Development</p> <p>- ECTS: 6.0 - 16 weeks - 150 hours - Full online - For bachelor/master level</p> <p>Objective: The goal of this course is to observe and evaluate the global development process of implementing policies and strategies to ensure sustainable development at the international level, to use the mechanisms of global multilateral cooperation</p> <p>NUM ENVI502</p> <p>Тогтвортой хөгжил</p> <p>Эхлэх: Sep 1, 2023</p>
<p>Co-funded by the Erasmus+ Programme of the European Union</p> <p>Urban Resilience and Adaptation for Intra and Mongolia</p> <p>territorial capacity, ICT and stakeholder collaboration to support green & blue infrastructure and nature based solutions</p> <p>New course: Environmental management</p> <p>► ECTS: 6.0 ► 12 weeks ► 150 hours</p> <p>Objective: The course objective is to provide about the knowledge of natural systems which make life possible on Earth; an understanding that humans are part of these systems and depend on them; an appreciation of the diverse influences of human activity on natural systems; an awareness of the need to manage natural systems; an understanding of sustainable development to meet the</p> <p>NUM ENVI803</p> <p>Хүрээлэн буй орчны менежмент</p> <p>Эхлэх: Sep 1, 2023</p>	<p>Co-funded by the Erasmus+ Programme of the European Union</p> <p>Urban Resilience and Adaptation for Intra and Mongolia</p> <p>territorial capacity, ICT and stakeholder collaboration to support green & blue infrastructure and nature based solutions</p> <p>NATURE CONSERVATION AND SPECIAL PROTECTED AREA MANAGEMENT</p> <p>Revised course: Nature conservation and special protected area management</p> <p>- ECTS: 6.0 - 12 weeks - 150 hours - Full online</p> <p>Objective: The course examines traditional and modern methods of environmental protection, human-caused environmental problems, and human actions for conservation/rehabilitation, including science, politics, business, the role of people, and sustainable development. It aims to provide</p> <p>NUM ENVI802</p> <p>Байгаль хамгаалал ба тусгай хамгаалалтай газар нутгийн менежмент</p>	

The project website: <https://urgent-project.net/>

Facebook page: <https://www.facebook.com/groups/urbangreenblue>

Disclaimer

The European Commission support for the production of this publication does not constitute an endorsement of the contents which reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

This project No. 619050-EPP-1-2020-1-DE-EPPKA2-CBHE-JP has been funded by Erasmus+ CBHE program of the European Union.