**SYLLABUS:**

**Urban Logistic**

Course name: Urban Logistic

Number of credits: 6 ECTS/3 MCTS

Period: Fall/Spring semester

|  |  |
| --- | --- |
| Host institution | National University of Mongolia, School of Engineering and Applied Sciences |
| Lecturer | Battsengel Enkhchimeg |
| Level | Bachelor course |
| Course type | Major course |
| Course duration | 16 weeks |
| New/Revised | Revised |
| E-course link | <https://online.num.edu.mn/courses/course-v1:NUM+ENEN301+2022/course/> |
| Language | Mongolia |

### Summary

3 ECTS/6 MCTS

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. In addition, the course is to compare and analyze the advantages and disadvantages of city logistics in national and international contexts. Finally, students will discuss a solution and their opinions on national issues in logistics based on the lecture materials and self-learning references.

### Target student audiences

Bachelor students majoring in Environmental Engineering

### Prerequisites

Required courses (or equivalents):

1. Environmental Studies ENVI200

2. Environmental Engineering ENEN303

Equivalents:

3. Clean energy technology ENEN304

### Aims and objectives

The aim of this course is to provide basic knowledge of urban logistics to students and to provide them with the ability to solve issues facing in this sector.

**The authentic tasks**

In this course, 2 students will work as a team to conduct a case study and environmental calculations in a seminar class, and each team will present a 10-minute presentation at each workshop.

### General learning outcomes:

During the course, students can gain general and basic knowledge about urban transport and logistics in the form of lectures, and gain real and practical knowledge by comparing and analyzing logistics optimization and errors in other countries. General skills such as calculations, given research results, researching data, writing reports, comparing and analyzing calculations, expressing one's opinion, working in a team, giving presentations, etc. can be practiced.

### Overview of sessions and teaching methods

The course will make most of interactive and self-reflective methods of teaching and learning and, where possible, avoid standing lectures and presentations. …

|  |  |
| --- | --- |
| Learning  methods | * Video presentations * Interviews, surveys, group work, written articles * Project Based Learning * Literature review * Stakeholder analysis/client consultancy |
| Course  outline | 1. Introduction 2. Concept of urban logistic 3. Concept of urban logistic 4. Urban logistics solutions 5. Urban logistics solutions 6. Assessment of city logistics 7. A study of urban logistics   Progress test   1. Problems with transport logistics 2. Problems with transport logistics 3. The impact of e-commerce on the development of urban logistics 4. The impact of e-commerce on the development of urban logistics 5. Urban environment and quality of life 6. Urban environment and quality of life 7. Urban environment and quality of life 8. Marketing Logistics 9. Marketing Logistics |

### Course workload

The table below summarizes course workload distribution:

|  |  |  |  |
| --- | --- | --- | --- |
| Activities | Learning outcomes | Assessment | Workload  (hours) |
| **In-class activities** | | | | |
| Lectures | Definitions, Theroies of Urban logistic | Class participation |  |
| Moderated in-class discussions | Understanding various policy and management contexts and common problems in communication in environmental governance | Class participation and preparedness for discussions |  |
| In-class assignments, field assignment | Understanding various policy and management contexts and common problems in communication in environmental governance | Class participation and preparedness for assignments |  |
| Reading and discussion of assigned papers for seminars and preparation for lectures | Familiarity with and ability to critically and creatively discuss key concepts, tools and methods as presented in the literature | Class participation, creative and active contribution to discussion |  |
| Group presentation | Ability to interpret data, to analyze audience, and to use the concepts, tools | Quality of group assignments and individual presentations |  |
| **Independent work** | | | | |
| Group work:   * Contribution to the group case-study projects * Contribution to the preparation and delivery of individual presentation | Ability to interpret data, to analyze audience, and to use the concepts, tools, and methods for communicating information to all participants | Quality of group assignments and individual presentations |  |
| Course group assignment | In this course, 2 students will work as a team to conduct a case study and environmental calculations in a seminar class, and each team will present a 10-minute presentation at each workshop. | Quality of group assignments and individual presentations |  |
| Group presentation | Ability to interpret data, to analyze audience, and to use the concepts, tools. | Quality of group assignments and individual presentations |  |
| **Total** |  |  |  |

### Grading

The students’ performance will be based on the following:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Assessment | Progress assessment (40%):   * Attention (20%): students will be attended each class. * Group work (20%): The students will be divided into groups of 2 students and to work   Midterm examination (30%): Test exam  Final examination (30%)   * Group report: The students will be divided into groups of 2 students and choose 1 topic based on lectures. | | | | |
| Evaluation  EU system | A (8,5 – 10)  B (7,0 – 8,4)  C (5,5 - 6,9)  D (4,0 – 5,4) | Evaluation  MN system | 95-100  90-94  85-89  80-84  75-79  70-74  65-69  60-64  0-59 | A  A-  B  B-  C  C-  D  D-  F | 4.0  3.6  3.1  2.7  2.3  1.9  1.4  1.0  0.0 |

### Course schedule

|  |  |  |  |
| --- | --- | --- | --- |
| Week | In-class  hours | Topic | Type |
| 1 | 2 | * Introduction. What is the urban logistic? definitions | Lecture |
| 2 | * Discuss and to divide the groups; work on the case study; presentation | Seminar |
| 2-3 | 4 | * Concept of urban logistics system | Lecture |
| 4 | * work on the case study; presentation | Seminar |
| 4-5 | 4 | * How to understand, evaluate and improve urban freight and logistics chains using a systems approach | Lecture |
| 4 | * work on the case study; presentation | Seminar |
| 6 | 2 | * Urban logistics solutions | Lecture |
| 2 | * work on the case study; presentation | Seminar |
| 7 | 2 | * A variety of ways to improve urban freight conditions and how they are implemented | Lecture |
| 2 | * work on the case study; presentation | Seminar |
| 8-9 | 4 | * Lack of urban logistics * Road transport, air transport, water transport, cargo, delivery, etc | Lecture |
| 4 | * work on the case study; presentation | Seminar |
| 10-11 | 4 | * A study of urban logistics | Lecture |
| 4 | Work on the case study; presentation | Seminar |
| 12-13 | 4 | * Transport logistics problems | Lecture |
| 4 | * Work on the case study; presentation | Seminar |
| 14 | 2 | * The impact of e-commerce on the development of urban logistics | Lecture |
| 2 | * Work on the case study; presentation | Seminar |
| 15-16 | 2 | * Urban environment and quality of life | Lecture |
| 2 | * Work on the case study; presentation | Seminar |

### Literature

**Recommended:**

1. Б.Батчимэг, (2018) “Логистик ба нийлүүлэлтийн хэлхээний менежемент”, Мөнхийн үсэг ХХК, Улаанбаатар, Хуудас 72, Mонгол хэл
2. Meyer, Michael, and Eric Miller. Urban Transportation Planning. New York, NY: McGraw-Hill, 2001. ISBN: 9780072423327. The ISBN for the paperback version of the textbook is 9780071200004.
3. François-Joseph Van Audenhove, Sam De Jongh, and Marc Durance*. “Urban Logistics*”. , Arthur D. Little, Paris

https://www.adlittle.com/sites/default/files/viewpoints/ADL\_Urban\_Logistics.pdf

1. Б.Батчимэг, (2020) “Дотоод болон Олон Улсын худалдаанд ашиглагдах ОУХТ-ын дүрэм”, редакторууд Ш.Цэвэлсайхан, Улаанбаатар, хуудас 200, ISBN:978-92-842-0510-3, Mонгол хэл