

**MASTER IN SMART TRANSPORT AND LOGISTICS FOR CITIES  
WITHIN THE ERASMUS + PROGRAMME:  
APPROACH AND INNOVATION**

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The idea of creating a scientific and educational program, the content of which would include the best world practices and achievements in the field of transportation systems and technologies, logistics arose in the Department of Transport Systems and Logistics of O. M. Beketov National University of Urban Economy in Kharkiv in 2015. This idea was implemented within the Erasmus + KA2 Capacity Building of Higher Education program taking into consideration the relevance of such a project for the transformation of the content of educational space in Ukraine. The formation of the educational program and curriculum development in accordance with the requirements of Ukrainian legislation, detailed consultations with labour market representatives, European and Ukrainian partners on the content and features of the program was began in September 2017. The result of this work is implementation of two-year scientific and educational Master program in Smart Transport and Logistics for Cities (120 ECTS). The programme is implemented in two universities of Ukraine yet: National Transport University (Kyiv), Lviv Polytechnic National University (Lviv).

The aim of the educational program is to obtain competences sufficient to solve complex problems in the field of transport systems of urbanized territories based on best practices and technologies developed in European countries in the field of intelligent urban transport and logistics.

The interests and suggestions of different stakeholders have been taken into account in formulating learning outcomes: students, employees, academic society.

The interests and proposals of students have been taken into account by means: individualization of the study trajectory (elective courses, academic mobility); the interests and suggestions of graduates regarding the program learning outcomes have be taken into account based on the results of the questionnaire and discussion of the program with first-year students.

The interests and proposals of employees have been taken into account by means of meetings hold with potential employers and labour market representatives. Representatives of the Infrastructure Department of the Kharkiv City Council and LLC Comcom Traffic took an active part in the discussion of

the curriculum of education programme. Their proposals were taken into account in the formation of professional competencies of the specialty and program results defined by the institution of higher education, in particular: the ability to assess the effectiveness of traffic flows in cities and measures to organize traffic; ability to research and design transport infrastructure facilities; have the skills to assess the effectiveness of traffic flows in cities and measures to organize traffic; analyze and have skills in research and design of transport infrastructure. In addition to the above, the content of the educational programme was discussed with representatives of the following enterprises and organizations: Institute of Market Problems and Economic and Environmental Research, LLC ATP 16327, LLC Transport and Logistics Company S.I.B. AUTO, BMZ BUD LLC, LLC VIASYSTEMPRO. Their proposals played a significant role in the formation of blocks of disciplines of free choice of students.

The interests and proposals of academic community have been taken into account by means of participation of teachers in methodological seminars, implementation of current educational practices, applied software products and opportunities to use Information Communication Technologies to improve learning. The program results of the educational program were discussed with the representatives of the of the National Transport University and Lviv Polytechnic National University. Also, crucial part of the creation of the educational program is collaboration with European professors from University of Rome Tor Vergata (Italy), Sapienza University of Rome (Italy), Politechnika Slaska (Poland), Wismar University (Germany).

The implementation of educational program will allow to update topics and methods of courses for students with the current international experiences; to update research topics in the field of smart transport and logistics for cities with the most recent international experiences; to involve teachers in the international research networks.

One of the crucial results of the program is new Master programme in Smart Transport and Logistics for Cities are based on Master program at Transport Systems and Logistics Department of O. M. Beketov National University of Urban Economy in Kharkiv.

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## EDUCATION FOR SUSTAINABLE DEVELOPMENT IN ESTONIA

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In 2015, 195 nations agreed that they can change the world for the better. This will be accomplished by bringing together their respective governments, businesses, media, institutions of higher education, and local NGOs to improve the lives of the people in their country by the year 2030. The Sustainable Development Goals are the blueprint to achieve a better and more sustainable future for all. They address the global challenges we face, including those related.

Estonia is on a sustainable course if there is progress towards the four main goals: growth of welfare, a coherent society, viability of the cultural space and ecological balance. These are the components of sustainability as defined in the Estonian National Strategy on Sustainable Development. Life in Estonia has improved but this has not been enough to catch up with the leading countries in the European Union.