

PROGRAMME

LOGISTICS ANALYTICS



PF



DD

Master's Study Programme (MSP)
in English

Game theory, optimisation, statistics and programming – the main mathematical disciplines in logistics.

We offer a **Double Degree programme** on current topics in logistics from the mathematical point of view, meaning that you will apply precise methods to problems such as:

- Optimal routing
- Supply chain management

- Distribution and delivery
- Profit distribution
- Production planning

You will be studying in English, one year in the Czech Republic, one year in Norway (Molde) and receive both Czech and Norwegian diplomas as an international recognition of your qualification.

You will gain real experience when collaborating with Norwegian logistics companies on, for example,

delivering supplies to the oil platforms or distributing oil or gas to the customers.



Institute of Mathematics
math.fme.vutbr.cz/en

LOGISTICS ANALYTICS

A joint programme with Molde University College – Specialized University in Logistics, Molde, Norway, is focused on the analytical aspects of logistics tasks, particularly on the mathematical methods of their solution.

Students will solve practical issues by precise analytical methods, optimise the results and use AI when applicable. Also, game theory is involved to justify the way of sharing the profit and incorporate aims of involved stakeholders. We expect the mathematical skills of the applicants at the level of the programme Fundamentals of Mechanical Engineering (BUT), i.e., solid foundations of linear algebra, calculus, differential equations and statistics are necessary.

The first year will be spent in Brno, the second in



Molde with a possibility of institutional funding. The winter semester of the second year is composed of Seminars in Logistics taught by internationally recognized specialists, in the form of one-week intensive courses ending with a project evaluation. The summer semester is devoted to the thesis composition, typically in collaboration with a Norwegian company, usually associated with mining industry or

the logistics of oil or gas distribution. The thesis will be supervised by Czech and Norwegian specialists.

Students will receive both Czech and Norwegian diplomas (Double Degree programme).

It is possible to continue with PhD studies at BUT (Applied Mathematics) or in Molde.

THE FACULTY OF MECHANICAL ENGINEERING

of the Brno University of Technology is the largest mechanical engineering faculty in the Czech Republic.



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