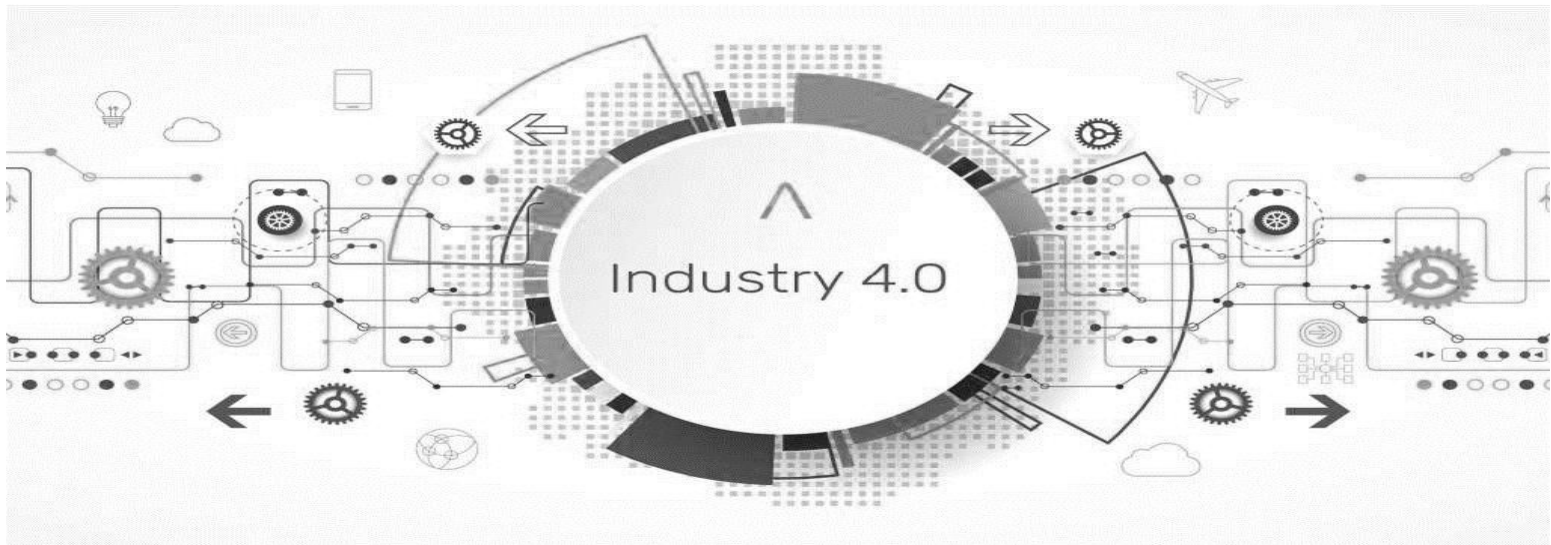


# Branch:Mathematical Engineering



**Code:** MAOPRE

**Option:** Mathematics in Operations Research

**Level:** Master

**Prerequisites:**

**Opportunities:**

As a graduate of the Master of Science in Operations Research Mathematics program, you are prepared for interdisciplinary employment in a wide range of industries. These include, for example, the fields of logistics, production and resource planning or network and process optimization. Further opportunities are available in consulting, controlling, portfolio management or actuarial mathematics.

## **Description**

The Master's program in Mathematics of Operations Research focuses on mathematical optimization and other subfields of applied mathematics. What is the purpose of this study program?

The Master of Science in Operations Research Mathematics program is designed for students interested in a challenging mathematical education focused on mathematical optimization and its applications.

The program focuses on the theory and applications of non-linear and discrete optimization, but also includes courses in numeric, stochastic or applied analysis.

This content is complemented by modules that teach applications of operations research, for example in economics, computer science or business informatics.

Interdisciplinary methodological skills and interdisciplinary soft skills complete the program.

### **Quality and competences**

As a graduate, you will have a thorough knowledge of mathematical optimization and other key areas of applied mathematics. Depending on your choice of secondary subject, you will be able to supplement this knowledge with other highly application-oriented skills.

In your minor subject, you can choose modules in the areas of economics, computer science and business informatics. Possible subjects are logistics, production, project management, information management, business analysis, data mining, random algorithms or data structures.