

Valid for applications for the Summer Semester 2020 or later

[Information sheet on Curricular Analysis for the Master in Management and Technology](#)

Attention! There is a new category in the curriculum analysis for all completed additional classes that are not part of your main study program but were accomplished to gain missing credits necessary for a successful application. Please read this document through.

In accordance with Annexure 2 of the examination and study regulations of the Master’s Program in Management and Technology, the assessment commission uses a curricular analysis to assess your eligibility and aptitude.

1. Registration

Please fill out the registration form. The link to this form will be provided at the very end of your TUM Online application.

REGISTRATION - MASTER IN MANAGEMENT & TECHNOLOGY

Name

First Name

Date of Birth
dd.mm.yyyy e.g.: 24.05.1996

Gender

Email Address

You apply for

TUM Alumnus

Academic Qualification (e.g. Bachelor Management & Technology)

University (Name)

University (Place/City)

University (Country)

Have you taken the GMAT (General Management Admission Test)? Yes No

The GMAT is not mandatory for applying to TUM School of Management. A result of at least 600 points will be taken into account.

Please provide information regarding your undergraduate studies (bachelor program):

Previous study program: please indicate your previous study program in German or English as stated on your degree certificate e.g. Technologie- und Managementorientierte Betriebswirtschaftslehre, Wirtschaftsingenieurswesen, Industrial Engineering etc.

Please indicate the official name of your university and its place and country.

Please indicate the information on GMAT (not mandatory) and upload evidence on TUM Online.

After registration, you will receive an e-mail with your login information.

2. Entering Courses

After registration please enter modules/courses, grades and credits (ECTS) according to the Transcript of Records of your undergraduate studies (Bachelor Degree Program) in German or English.

If you have completed additional classes that are not part of your main study program but were accomplished to gain missing credits necessary for a successful application, please list them under the seventh category **Subjects from additional transcripts and/or additional degrees** and include the transcript(s) with your application.

List them according to the following subject groups as you see fit and please enter each subject only once!

1. Business Management Modules (at least 25 ECTS)
Examples: Finance and Accounting, Management Accounting, Financial Management, Controlling, Production Management, Supply Chain Management, Strategic Management, Risk Management, Human Resource Management, Information Management, Organization and Project Management, Management Games
2. Fundamental Subjects in Empirical Methods (at least 6 ECTS; for details see part B)*
Examples: Introduction to Social Research, Applied Econometrics, Market Research
3. Technical basics in the field of quantitative decision support with methods of Operation Research (at least 6 ECTS; for details see part B) *
Examples: Management Science, Operations Research, Decision Oriented Modelling
4. Fundamental Subjects in Economics (at least 10 ECTS)
Examples: Microeconomics, Macroeconomics, International Economics, Industrial Economics, Environmental Economics, Energy Economics
5. Fundamental Subjects in Engineering or Natural Sciences (at least 15 ECTS)
Examples: Mathematics, Statistics, Engineering, Information technology.
6. All other subjects
Examples: Law, Communication skills, Language Training, Software Training, Sociology, Psychology, Scientific Writing, Thesis, Internships, Sports
7. Subjects from additional transcripts and/or additional degrees
All completed additional classes that are not part of your main study program but were accomplished to gain missing credits necessary for a successful application

Please assign all modules/courses that do not fit in one of the above-mentioned subject groups or that you are unsure of (no. 1-5) to the category no. 6: All other subjects. Please make sure you enter each subject only once.

Please enter your Thesis and grade (if you have already finished your Bachelor's degree) in the category 6. All other subjects

Please note that all compulsory and elective modules must be listed and correctly assigned!

Please find an example below:

Which language should the courses listed be in? Please enter the classes exactly as they appear on your transcript of records (German or English). In case you are applying with a translated copy of a transcript of records, please use the translated title (German or English).

Can I enter non-numerical grades (such as A, B ...)? No, the system in use cannot process non-numerical grades. In this case, please leave the grade field blank, we will use the information in your transcript for reference.

I made a mistake. What should I do? If you have made a mistake, please contact admission@wi.tum.de

***Additional Information about core modules**

In the following, you will find relevant content for the core module groups Empirical Research Methods and Operations Research (based on syllabi from classes taught at TUM School of Management). For a recognition of a course, a predominant agreement of a complete module with the reference contents must be given.

Please note that we are not able to check classes for eligibility before you apply. It may be helpful to include certain syllabi with your application for our reference.

Please note that a final thesis or class paper cannot be recognized for any of the core module groups.

Management Science/Operations Research

Intended Learning Outcomes: After successful completion of the module students are capable of modelling mathematical optimization models for business problems, of solving small problems manually, of interpreting derived solutions and translating them into management actions.

Management Science is about:

- Modeling, solving and analyzing business administrations and management problems using mathematical concepts.
- Linear Programming
- Mixed-Integer Programming
- Graph Theory
- Network Flow
- Dynamic Programming
- Decision Theory

Empirical Research Methods

Content: This module will give you an introduction to empirical research methods, including the higher aims of empirical research, the standards it needs to meet, and a set of methods that you can directly apply. Topics:

- Research ethics
- Research question and their implications
- Paper reading, positioning, and contributions
- Correlation and causality
- Choosing a research design
- Qualitative research
- Quantitative analysis & quantitative research design
- Using existing scales and data

Please note that this information sheet is not legally binding nor do we guarantee for its correctness and completeness! The only legally binding document is the statute ("FPSO") in its most current version, available for download here:

<https://www.wi.tum.de/programs/master-mt/downloads/>