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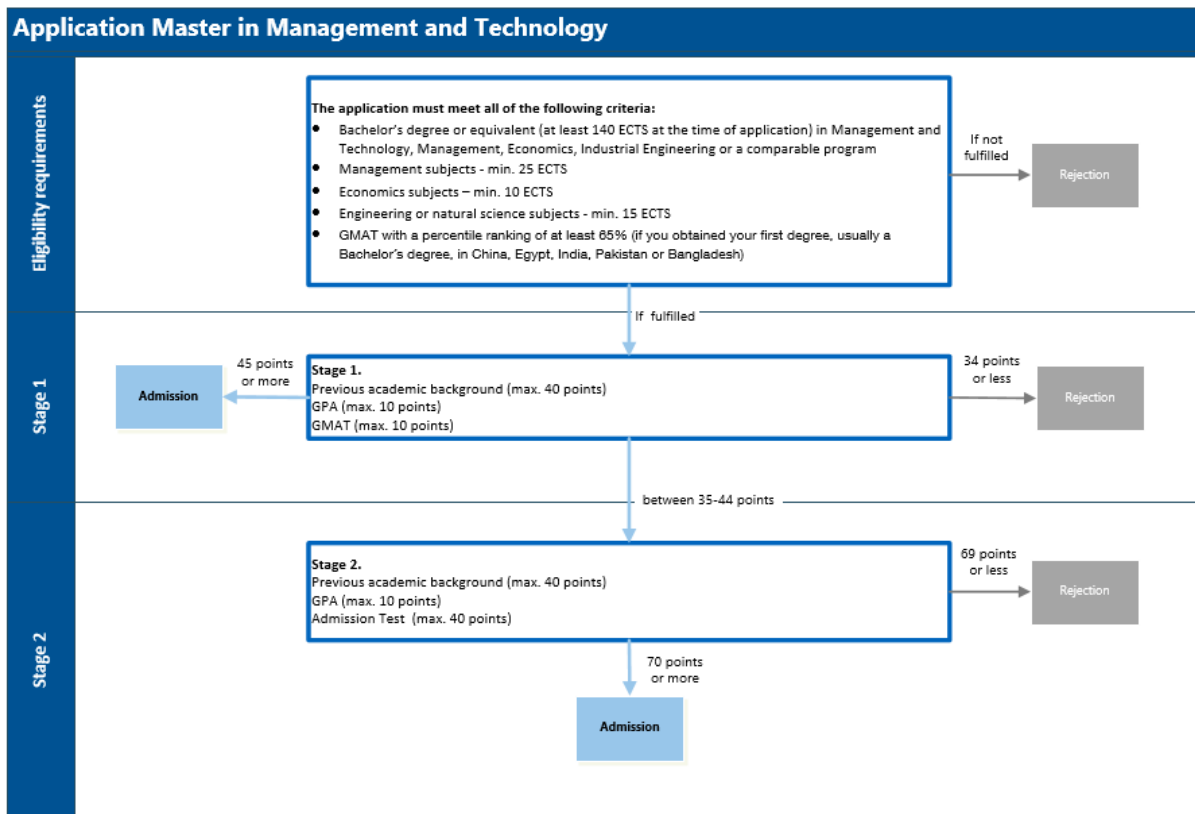
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Application process chart Master in Management and Technology



1. Assessment procedure Master in Management and Technology

1.1. Eligibility Requirements

To be eligible to apply for the Master in Management and Technology program, applicants must:

- (a) hold a **bachelor's degree or equivalent** (at least 140 ECTS at the time of application) in Management and Technology, Management, Economics, Industrial Engineering, or a comparable program.
- (b) have successfully completed modules worth at least **25 ECTS in business (management)/“Betriebswirtschaftslehre”**
- (c) have successfully completed modules worth at least **10 ECTS in economics/“Volkswirtschaftslehre”**
- (d) have successfully completed modules worth at least **15 ECTS in engineering or natural science**

Additionally, applicants who obtained their bachelor's degree or equivalent in China, Egypt, India, Pakistan, and Bangladesh must submit a **GMAT** (classic/focus) with at least 65% percentile ranking. This requirement cannot be waived.

Please note that **under no circumstances will conditional admission** be given, in case an applicant does not meet the eligibility requirements at the time of application.

If your application fulfills all eligibility requirements from 1.1., it will start with the first stage of the assessment procedure.

1.2. Stage 1: Previous academic background + GPA + GMAT

If an application meets the eligibility requirements, 30 points will be immediately granted for the credits in business/management and economics. The engineering/natural science prerequisite is not awarded any points in the assessment procedure.

Additionally, 10 points will be granted for the experience gained in operations research/management science (additional information about this core module can be found [here](#)). **Please note:** Credit in this area is not an eligibility requirement. However, it plays a crucial role in the success of the application.

As long as the course has been passed, it can be considered for the assessment. The respective grades are irrelevant for the evaluation of the core module groups. If the application does not reach the minimum number of credits stipulated for each category, zero points will be given in that specific field. Please note that we can only consider modules that have been completed and that appear in the transcript of records at the time of application. In addition, we can only consider courses with academic credits.

Core module group	Points	
Business management modules (at least 25 ECTS)	20	Granted immediately when fulfilling the eligibility requirements
Courses in quantitative decision making with methods of operations research (at least 5 ECTS)	10	May be granted
Modules in economics (at least 10 ECTS)	10	Granted immediately when fulfilling the eligibility requirements
Total	40	

An applicant may receive up to 10 points for the overall final bachelor's degree GPA. If you apply with undergraduate degree from outside Germany and / or with a grade of a grading system other than the German one, your GPA will be converted into the German grading system using the [Bavarian formula by TUM](#) or [Uni-Assist](#). Please refer below for more information:

GPA	1,0	1,1/1,2	1,3/1,4	1,5/1,6	1,7/1,8	1,9/2,0	2,1/2,2	2,3/2,4	2,5/2,6	2,7/2,8	≥2,9
Points	10	9	8	7	6	5	4	3	2	1	0

The points from the core modules and your final grade will be combined.

Extra points will be given for a GMAT score according to the table below:

GMAT Certificate percentile ranking %	≤65 - 71	72 - 74	75 - 77	78 - 79	80 - 81	82 - 84	85 - 86	87 - 88	89 - 90	91 - 92	≥ 93
Points	0	1	2	3	4	5	6	7	8	9	10

Please note, if you have obtained your first degree (usually a bachelor's degree) in **China, Egypt, India, Pakistan, and Bangladesh** you **must submit a GMAT (classic/focus) with at least 65%** percentile ranking. If your bachelor's degree has been obtained in any other country, submitting a GMAT is optional for you. If you decide to submit a GMAT, the extra points will be given according to the table above.

The extra points of the GMAT are considered only in the first stage of the assessment procedure. Please make sure you give the Technical University of Munich **the right to verify it online**.

The result of stage 1 either leads to:

- Rejection - if the application reaches 34 points or less
- Direct admission - if the application reaches 45 points or more
- Stage 2 - if the application reaches between 35-44 points

1.3. Stage 2: Points from Stage 1 (without GMAT) + Admission Test

If an applicant continues onto Stage 2, the applicant will be invited to take an admission test. Applicants will be informed of the admissions test date and time at least one week before the admission test. The test consists of about 40 to 50 questions and has a maximum score of 40 points. It is divided into four categories:

1. Fundamentals: Mathematics and Statistics (25%)
2. Fundamentals of Business Administration and Accounting (25%)
3. Fundamentals of Micro- and Macroeconomics (25%)
4. Short written text on an issue in the context of economics and technology (25%)

The final result in stage 2 consists of the combined points from stage 1 (GMAT not being considered in stage 2) and the total points achieved in the test. If the combined total is 70 points or more, the application will be accepted (admission). If the total score is 69 points or less, the application will be rejected.

2. How to fill out the Curricular Analysis?

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. During your application in TUMonline, you will need to follow a link to fill out the Curricular Analysis.

2.1. Registration

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

The screenshot shows the 'Welcome to the TUM Aptitude Assessment Portal' page. At the top left is the TUM logo and 'Aptitude Assessment TUM'. At the top right is a link for 'Admin log in'. Below the header is a yellow banner with the text: 'Enter your email address to receive a login code. After logging in, you will be able to create new curriculum analysis or edit an existing one.' The main form has two sections. The first section is for email registration, with a label '* Email:' and a text input field. Below the field is the text 'Please input your email!'. To the right of the field is a blue 'Submit' button. A callout box with an arrow pointing to the 'Submit' button contains the text: 'Please enter your email address and click submit. In short you will receive an e-mail with a code.' Below this section is a 'Help' section with the text: 'In case you need help or need to edit an already submitted curriculum analysis please contact us here: TUM Administration.' The second section is for login code entry, with a label '* Login Code:' and a text input field. Below the field is the text 'Please input your 6 digit login code!'. To the right of the field is a blue 'Submit' button. A callout box with an arrow pointing to the 'Submit' button contains the text: 'Enter the 6 digit code you received.' Above the second section is a yellow banner with the text: 'Enter the login code associated with the email address: daniela.rueda.unrea@tum.de'.

Enter your personal information.

The screenshot shows the 'Your Curriculum Analysis' form. At the top left is a back arrow and the text 'Your Curriculum Analysis'. At the top right are three buttons: 'Reset', 'Save', and 'Submit'. Below the header is the text 'for Testprocess - Testing Studies' and 'Credits/Modules Validation'. Below this is the text '0 / 0'. The form has several fields: '* First Name:' with a text input field; '* Last Name:' with a text input field; '* Applicant Number' with a text input field and a circular icon; '* Application Number' with a text input field and a circular icon; '* Date of Birth:' with a 'Select date' dropdown and a calendar icon; '* TUM Alumnus:' with a radio button and a 'x' icon; '* Academic Qualification' with a text input field and a circular icon; and '* University Name:' with a text input field. A callout box with an arrow pointing to the 'Academic Qualification' field contains the text: 'Please provide information regarding your undergraduate studies (bachelor program): **Academic qualification:** please indicate your previous study program in German or English as stated on your degree certificate. Please indicate the official name of your university and its place and country.'

* University Name:

* University City:

* University Country:

* Required Credits

* Current Credits

* Standard period of study (years):

Please enter the **required amount** of credits to complete the studies, the **credits you have completed** and the **standard length** of the program in years.

2.2. Entering courses

After registration, please enter all modules/courses, grades, and credits (ECTS) according to the Transcript of Records of your undergraduate studies (Bachelor's Degree Program) in German or English. If you have completed additional modules that are not part of your main study program, please list them under the seventh category **Subjects from additional transcripts and/or additional degrees** and upload the transcript(s) in TUMonline.

List them according to the following corresponding subject groups and please enter each subject only once!

Business management modules Sum of Credits: 0/25

Module Name	Credits	Grade	Category
<input type="text" value="Module Name"/>	<input type="text" value="Credits"/>	<input type="text" value="Grade"/>	Business management modules
+ Add module			

Please enter the name of the course/module as stated on the transcript (Leistungsnachweis) in German or English.

Please enter the number of credits you have gained for the course as indicated on the transcript.

Please enter your grade as indicated on the transcript. Foreign grades do not need to be transferred into the German grading system. **In case you have non numerical grades, please enter 0.**

Subjects or modules from additional transcripts that you would like to use to fulfill the ECTS requirements must be entered in the last category "Subjects from additional transcript and/or additional degree".

Subjects from additional transcripts and/or additional degrees Sum of Credits: 0/0

Module Name	Credits	Grade	Please consider for Category	Switch Category
Example 1	5.0	1.0	Fundamental subjects in empiric...	Subjects from additional transcripts...
Example 2	8.0	4.0	Technical basics in the field of qu...	Subjects from additional transcripts...
+ Add module				

Please enter the name of the course/module as stated on the transcript (Leistungsnachweis) in German or English.

Please enter the number of credits you have gained for the course as indicated on the transcript.

Please enter your grade as indicated on the transcript. Foreign grades do not need to be transferred into the German grading system. **In case you have non-numerical grades, please enter 0.0**


Please choose the core module group in which you want the subject/module to be considered for.

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

If the name of the course(s) is not clearly about management topics, it may be helpful to upload here the course description(s) for our reference.

To upload the document click on the little white cross next to the name of the category.

Sum of Credits: 0/25 

2. Technical basics in the field of quantitative decision making with methods of operation research (at least 5 ECTS; for details see [here](#))

Examples:

Operations Research and Decision Analysis, Management Science, Operations Research, Decision Oriented Modelling

Please upload here the course description(s) for our reference.

3. Fundamental subjects in economics (at least 10 ECTS)

Examples: Microeconomics, Macroeconomics, International Economics, Industrial Economics, Environmental Economics, Energy Economics

If the name of the course(s) is not clearly tied to economic topics, it may be helpful to upload here the course description(s) for our reference.

4. Fundamental subjects in engineering or natural sciences (at least 15 ECTS)

Examples: Mathematics (depending on the course content), Engineering, Informatics (for more details see [here](#)).

If the name of the course(s) is not clearly about engineering or natural science topics, it may be helpful to upload here the course description(s) for our reference.

5. All other subjects

Examples: Law, Communication Skills, Language Training, Software Training, Sociology, Psychology, Scientific Writing, Thesis, Internships, Sports

6. Subjects from additional transcripts and/or additional degrees

All completed additional modules that are not part of your main study program but were accomplished to gain missing credits necessary for a successful application.

Please upload here the course description(s) for our reference.

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

2.3 Additional Information about core modules

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

Please note that we cannot check modules for eligibility before you fully 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

Informatics courses for the field fundamental subjects in engineering or natural sciences

Modules with the following contents are not recognized:

- Application of software (e.g. SAP, image processing, accounting, etc.)
- Organizational issues of operational IT use (procurement, implementation of projects)
- Advantages and disadvantages of IT applications/uses

Modules with the following contents are more likely to be recognized:

- Computer architectures
- Structure of databases
- Programming of software

2.4. Submission

Before submitting the form online, please verify that all your entries **are correct and complete**.

All compulsory and elective modules must be listed and correctly assigned! If on your transcript of records contains 25 courses with a total of 180 credits, then your curricular analysis must have those 25 courses and 180 credits.

140 / 140.00

Check that the number of credits is the same.

* First Name: [REDACTED]
* Last Name: [REDACTED]
* Applicant Number: 2-00001234
* Application Number: 1-00001234

2.5. FAQs about the Curricular Analysis

Can I also list modules from my master studies or previous study programs? Yes, anything besides the modules from your bachelor's degree can be listed in the Curricular Analysis under the sixth category "Subjects from additional transcripts and/or additional degrees".

Can I also list modules that I will finish after my application? No, you are only allowed to insert completed courses that are listed in your Transcript of Records.

I did not get a grade for the course, should I list it? Yes, please list all modules of your transcript of records. If you did not get a grade please enter 0.0.

I'm not sure which category my course fits into. What should I do? Please make your own assessment in compliance with our BMT module handbook

Should I convert grades into the German grading system and credits into the ECTS system? No, please enter the classes exactly as they appear on your transcript of records. If any conversions are necessary, they will be done by TUM.

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 cannot process non-numerical grades. In this case, please enter 0.0, we will use the information on your transcript for reference. In case your transcript of records contains the numerical equivalence of the letter grades, please enter the numerical grades.

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

How can I upload a module description? To upload your module descriptions in the Curricular Analysis click on the white cross next to each category.

Where can I find the Application and Applicant numbers? You find the numbers in TUMonline:

1. Click continue in the application until you will come to "preview" (it normally saves the draft)
2. Then go back
3. In "My applications", you will see both numbers

If with these steps you still cannot find the application number, please enter the applicant number instead.

I'm having problems with the Curricular Analysis, what can I do? If you are facing problems with the Curricular Analysis, please try the following solutions:

- Have all the fields in Personal Information been filled in and saved? These are required fields and if any of them have not been filled in, nothing can be saved.
- Are you using the latest version of Google Chrome, Safari or Mozilla Firefox? The program works best in these browsers. Outdated browser versions may cause difficulties.
- Did you fill in all the information in the modules? It is necessary to fill in all fields here as well.

Please note that this information sheet is not legally binding, nor do we guarantee its correctness and completeness! The only legally binding document is the statute (“FPSO”) in its most current version.