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Facebook Instagram LinkedIn YouTube

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MIX Paper aus vermehrungs- und langlebengerechter Kultur

FSC® C019545

TUM School of Management
Technical University of Munich

MASTER IN MANAGEMENT & TECHNOLOGY
Decision makers with a high level of responsibility regularly face challenges that reach beyond strictly managerial issues. Having knowledge of how technical development and production processes are designed enables managers to assess the situation and make sound decisions accordingly. Furthermore, the strict separation of different departments within a company is dissolving. A solid understanding of how your colleagues in distinctive fields work and think will be key to successful leadership and performance on the job. The program’s unique combination empowers you to drive innovation and perform tasks at the interface of management and technology—and thus prepares you for your future professional life.

The program is designed to meet you at your current academic stage. Regardless of whether you already have an interdisciplinary background gained through a degree combining management and technology or if you are rooted in pure management studies—you will be equally prepared to reach the same goal: Become a skilled business leader with a profound understanding of technical knowledge.
The core of the program lies within the two areas of Management and Technology. Both include different specialization options to choose from. At the beginning of your studies you select one out of seven specializations currently offered in the Management area. The same goes for the area of Technology: depending on your previously gained knowledge, you can choose from six different specialization options. Students with an existing technical understanding from their acquired Bachelor’s degree can deepen their knowledge in majors or if you don’t have any previous knowledge in Technology, the program allows you to gain basic skills in Technology in your selected minor.

The individualization does not stop here. Besides your individually selected core modules in the areas of Management and Technology, you have additional electives (30 credits in total) that allow you to shape your personal profile even further. There are many different electives to choose from. Here are three different options to sharpen your profile that we at TUM School of Management would highly recommend our students:

INTERNATIONAL PROFILE
The international profile is right for you if you want to spend a semester abroad and take additional courses in Management and/or Technology at your host university.

SHARPENED MANAGEMENT PROFILE
The sharpened management profile is right for you if you want to take additional management courses at TUM School of Management.

SHARPENED TECHNOLOGY PROFILE
The sharpened technology profile is right for you if you want to take additional courses in Technology.
### STUDY OVERVIEW

#### Specialization in Management

Elective Modules
Select one of the following subjects:
- Economics & Policy
- Energy Markets (NEW!)
- Finance & Accounting
- Innovation & Entrepreneurship
- Life Science Management (NEW!)
- Marketing, Strategy and Leadership
- Operations & Supply Chain Management

#### Specialization in Technology

Elective modules in:
- Chemistry (minor/major)
- Computer Engineering (minor/major)
- Electrical and Computer Engineering (minor/major)
- Industrial Engineering (minor)
- Informatics (minor/major)
- Mechanical Engineering (minor/major)

### Electives in Management & Technology

- Management
- Technology
- Abroad

### Master's Thesis

- 30 ECTS

### Thesis

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Semester 3</th>
<th>Semester 4</th>
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<tbody>
<tr>
<td>Management</td>
<td>Specialization in Management</td>
<td>Specialization in Management</td>
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<tr>
<td>12 ECTS</td>
<td>6 ECTS</td>
<td>12 ECTS</td>
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<td>Specialization in Technology</td>
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<td>12 ECTS</td>
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120 ECTS

Ideal Study Plan
PROGRAM STRUCTURE

Specialization in Management
Students must choose one of the following seven specializations in Management. Students must pass one Advanced Seminar and can choose 24 ECTS from elective modules in their specialization in Management. The offered elective courses are strongly influenced by our five Academic Departments. TUM School of Management will announce the list of available electives before the start of each semester. The offered elective courses are strongly influenced by our five Academic Departments. TUM School of Management will announce the list of available electives before the start of each semester.

- Operations & Supply Chain Management
- Economics & Policy
- Energy Markets (NEW!)
- Finance & Accounting
- Innovation & Entrepreneurship
- Life Science Management (NEW!)
- Marketing, Strategy & Leadership

Specialization in Technology
Depending on the subject selected in the Bachelor’s studies, students must select one specialization. In total, students must pass 30 credits. The modules offered in each specialization can slightly vary from one year to another. TUM School of Management will announce the new elective module catalogue before the start of each semester.

- Chemistry
  Depending on their previous knowledge, students are able to select basic modules (minor) or advanced modules (major) in Chemistry. The minor requires compulsory classes worth 18 ECTS and electives at least worth 12 ECTS to be selected and passed. For the major, in total modules worth 30 ECTS from the elective module catalogue must be selected and passed. Students who already passed the specialization Chemistry as part of their Bachelor’s studies, can only select advanced modules (major) of Chemistry.

- Computer Engineering
  Depending on their previous knowledge, students are able to select basic modules (minor) or advanced modules (major) in Computer Engineering. In total, modules worth 30 credits from the elective module catalogue must be selected and passed. Students who already passed the specialization Computer Engineering as part of their Bachelor’s studies, can only select advanced modules (major) of Computer Engineering.

- Electrical and Computer Engineering
  Depending on their previous knowledge, students are able to select basic modules (minor) or advanced modules (major) in Electrical and Computer Engineering. The minor requires modules worth 10 ECTS chosen from Electives 1 and modules worth 20 ECTS chosen from Electives 2 to be selected and passed. Students who already passed the specialization Electrical and Computer Engineering as part of their Bachelor’s studies, can only select advanced modules (major) of Electrical and Computer Engineering.

Informatics
Depending on their previous knowledge, students are able to select basic modules (minor) or advanced modules (major) in Informatics. In total, modules worth 30 credits from the elective module catalogue must be selected and passed. Students who already passed the specialization Informatics as part of their Bachelor’s studies, can only select advanced modules (major) of Informatics.

Mechanical Engineering
Depending on their previous knowledge, students are able to select basic modules (minor) or advanced modules (major) in Mechanical Engineering. In total, modules worth 30 credits from the elective module catalogue must be selected and passed. Students who already passed the specialization Mechanical Engineering as part of their Bachelor’s studies, can only select advanced modules (major) of Mechanical Engineering.

Industrial Engineering
Depending on their previous knowledge, students are able to select basic modules (minor) in Industrial Engineering. In total, modules worth 30 credits from the elective module catalogue must be selected and passed. Modules from Industrial Engineering cannot be part of the specialization in Management Operations & Supply Chain Management.

Electives in Management and Technology
Students must pass electives in Management and Technology worth 30 credits. There are three different ways to do so.

- International Profile
  You may earn these credits during an exchange abroad. Students, therefore, choose classes worth in total 30 ECTS at the exchange University that suit their curriculum. The classes are to be chosen from the list of classes offered by the exchange university.

- Sharpened Technology Profile
  Instead of taking and passing classes during an exchange abroad, you may also earn these credits by choosing classes of the technology electives. This allows you to explore another technical subject or broaden and deepen your specializations.

- Sharpened Management Profile
  You may also earn these credits by choosing classes of the management electives. This allows you to explore another management subject or broaden and deepen your specialization.

Master’s Thesis
The Master’s Thesis is a six month independent academic research project that proves the student’s knowledge and skills in their respective field of expertise. The Master’s Thesis may be written as a pure theoretical work or it can be complemented with empirical research as well. During the Master’s Thesis students are individually supported and supervised by the academic staff of the responsible chair. A successfully completed Master’s Thesis is rewarded with 30 ECTS.
APPLICATION PROCESS

ENTRANCE REQUIREMENTS

- Bachelor’s degree (requiring at least 6 semesters of study/min. 140 ECTS) or equivalent in Management and Technology (TUM-BWL) or a comparable program at the intersection of management and technology with at least 25 ECTS in management, 5 ECTS in economics and 12 ECTS in engineering or natural sciences (may be completed in the field of mathematics or statistics)
- Proficiency in English, which can be proven by one of the following:
  - TOEFL (88 ibT, 605 PbT), IELTS (6.5), Cambridge (CAE, CPE)
  - German school leaving certificate (Abiturzeugnis), min. 10 points on average
  - GMAT (600 points or more)
  - Degree from a postsecondary institution whose language of instruction is English
- English-language subject courses in a degree of at least 12 ECTS
- For options to prove your proficiency in German please visit the TU website

APPLICATION DOCUMENTS

The following documents* must be submitted in hardcopy:

- Signed application form
- Bachelor’s degree certificates and transcript of records (notarized copies)
- English Language Certificate (original or notarized copy)
- Resume/CV
- Proof of health insurance (only necessary for enrollment

*No guarantee for being complete and correct. Please double-check with the checklist in your online application account.

APPLICATION PERIOD

- 1 April–31 May (for winter semester)
- 1–30 November (for summer semester)

Online application via TUMonline http://campus.tum.de

Documents must be sent in hard copy to our Admissions and Enrollment Office (Immatrikulationsamt) no later than 31 May/30 November.

ASSESSMENT PROCEDURE

STAGE 1: We assess your...

<table>
<thead>
<tr>
<th>First-degree certificate or transcript of records, min. 140 ECTS (60 points*)</th>
<th>International Experience (10 points*)</th>
<th>GMAT Score (min. 600 points) (10 points)</th>
</tr>
</thead>
<tbody>
<tr>
<td>based on the following criteria:</td>
<td></td>
<td>(Non-mandatory)</td>
</tr>
<tr>
<td>• Knowledge gained from your first degree (50 points*)</td>
<td>• Performance in first degree (GPA) (10 points*)</td>
<td></td>
</tr>
</tbody>
</table>

Admission 61 points or more**

Rejection 54 points or less

STAGE 2: We assess your...

<table>
<thead>
<tr>
<th>First-degree certificate (60 points*) + Interview (20-30 minutes) (60 points*)</th>
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</thead>
</table>

based on the following criteria:

<table>
<thead>
<tr>
<th>• Knowledge gained from your first degree (50 points*)</th>
<th>• Reflection on cross-disciplinary competences and abilities (20 points*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Performance in first degree (GPA or student ranking) (10 points*)</td>
<td>• Knowledge of technology and management (30 points*)</td>
</tr>
<tr>
<td>• Competence in technical language of engineering/natural sciences/management (German/English) (10 points*)</td>
<td></td>
</tr>
</tbody>
</table>

Admission 81 points or more

Rejection 80 points or less

*Max. possible score
REGULATIONS

MODULES
- Electives can be chosen freely and in case of failure they can be substituted through another elective module.
- The time frame of a module is usually one semester.

STUDY PROGRESS
Students must pass at least
- 30 ECTS at the end of their 3. semester
- 60 ECTS at the end of their 4. semester
- 90 ECTS at the end of their 5. semester
- 120 ECTS at the end of their 6. semester
- To complete the program in due time (intended time of study for the program) 30 ECTS should be selected and passed each semester.
- The study progress will be checked once per semester.
Experience teaching and research in an inspiring environment at TUM School of Management, we carry out teaching and research at the intersection of management, engineering, natural and life sciences. Located in the heart of Munich, a thriving city in one of Germany’s most prosperous regions, we enjoy an academic, cultural and economic infrastructure that attracts talents from all over the world.

Since its foundation in 2002, the faculty has been engaged in a broad range of research projects that bridge the gap between disciplines. Our research focuses on future trends and real-world solutions that advance innovation-based businesses and benefit society at large.

Our highly motivated, international student body as well as the cooperation with renowned universities and management schools worldwide guarantee a global perspective, while industry know-how is brought into our programs through strong collaboration with our corporate partners. Together, we create a dynamic, inspirational and international community.

Be a part of it!

TUM School of Management is part of a select international group of business schools to hold the Triple Crown Accreditation.
VISIT TUM SCHOOL OF MANAGEMENT

Plan your journey to TUM School of Management and find your way to the different locations. Our chairs are spread out over different campuses of Technical University of Munich (TUM).

CITY CAMPUS MUNICH

TUM School of Management
Arcisstraße 21, 80333 Munich, Germany
Building 0505
Email info@wi.tum.de

GARCHING RESEARCH CAMPUS

Entrepreneurship Research Institute
Lichtenbergstr. 6, 85748 Garching, Germany
Email entrepreneurship-research@tum.de
Phone +49 (0)89 289 52803

TUM SCHOOL OF LIFE SCIENCES WEIHENSTEPHAN

Alte Akademie 8, 85354 Freising, Germany
Phone +49 (0)8161 71 0

Technical University of Munich (TUM) is one of Europe’s leading research universities. Its focus areas are the engineering sciences, natural sciences, life sciences and medicine, reinforced by schools of management and education. TUM acts as an entrepreneurial university that promotes talents and creates value for society. In that it profits from having strong partners in science and industry. It is represented worldwide with a campus in Singapore as well as offices in Beijing, Brussels, Cairo, Mumbai, San Francisco, and São Paulo. Nobel Prize winners and inventors such as Rudolf Diesel, Carl von Linde, and Rudolf Mößbauer have done research at TUM. In 2006 and 2012 it won recognition as a German “Excellence University.” In international rankings, TUM regularly places among the best universities in Germany.

More than 40,000 students

Around 550 professors

Roughly 10,000 staff members

172 degree programs

14 departments

411 buildings
LIVING IN MUNICH

Experience Munich’s unique combination of a cosmopolitan lifestyle and cordial atmosphere. TUM School of Management is located in the center of Munich, the capital of the federal state of Bavaria—an area known as the powerhouse of the German economy. Munich is a financial, publishing and technological hub and the city of choice for many global companies such as BMW, Siemens and Allianz.

Munich was recently ranked fourth as one of the cities with the highest quality of living worldwide. The city offers stunning architecture, wide expanses of green and, on a clear day, a fabulous view of the Alps. In Munich, people from all over the world make for a vibrant city life, while native Bavarians ensure that German “Gemütlichkeit” still has a firm place in everyday life.

DISCOVER THE CITY
You have probably heard of Oktoberfest, the event which attracts visitors from all over the world every year. But Munich has much more to offer: From its historic center to the space age designs of the Olympic stadium to the Allianz Arena—there is always something to discover.

FIND A PLACE TO CALL HOME
It can be difficult at times to find a room in Munich, since the city is quite popular in Germany. Students here live in private rooms, flat-shares, apartments or halls of residence.

SUPPORT SYSTEM OF THE STUDENT UNION
The universities are responsible for research and education—the student union takes care of the economic, social, health and cultural well-being of students in Germany.

BROADEN YOUR MIND
Libraries are the ideal places to study and prepare for exams away from all distraction. The university library includes nine branch libraries.

GET AROUND TOWN EASILY
GET SOME EXERCISE
The University Sports Center (ZHS) is open to students of all universities in Munich. The ZHS offers a variety of sporting activities for beginners as well as for long-time athletes.

CALCULATE YOUR COSTS OF LIVING
Recent calculations indicate that living in the capital of Bavaria costs about EUR 900 per month. Students are advised to have sufficient funds available to ensure a pleasant stay and stress-free studies at TUM.