

# CatchUp

The freshmen's guide by Fachschaft MPI  
Master Edition - WiSe 21/22

A hitchhiker's guide to studying at TUM as a master student



# Preface

Hi.

Whether you come from Munich and the surrounding area or not, this guide is for you. Have you ever tried to find a study room on our campus? Or dared a first look at TUMonline? You will soon see: Even the seemingly simple things about studying at TUM include treacherous little challenges that simply take up an unnecessary amount of time. We have tried to collect everything important for your first weeks at TUM in this guide. It is divided into different topics so you won't directly succumb to stimulus satiation. Starting with student life on the Garching campus and an IT guide to the infrastructure of TUM, as well as an introduction to your student council and student representatives, followed by tips for

your free time and an encyclopedia of the most important terms, this guide provides you with a comprehensive range of information. And even if there are unanswered questions left, you will at least know where to find the student council. They will answer you those :)

We hope that you have a good start to your studies and hope you enjoy reading our Freshmen's guide!

For the SET division of the MPI Student Council

The SET speakers

Antonia Hartl, Katha Kühne, Lukas Santos and Sebastian Faul

# Content

<b>3</b>	<b>Preface</b>
<b>5</b>	<b>Welcome at TUM</b>
5	Student Council Welcoming
6	Dean Welcoming
8	TUM in numbers
9	The SET
<b>10</b>	<b>Your Start in Studying at TUM</b>
11	Campus
14	Food
16	Learning Locations
17	Questions and Help
19	Uni etiquette
20	Backpack of a student
<b>21</b>	<b>IT Guide</b>
26	Corona Webtools
<b>27</b>	<b>Your Student Council</b>
27	The Student Council
31	University Policy
<b>32</b>	<b>Beyond Studying</b>
33	Events
36	University Sports Center Munich
37	Initiatives
44	Studying Abroad
46	der tu film
<b>47</b>	<b>Munich</b>
47	Places of interest
48	Museums
49	Venues
51	Pubs and Bars
52	Restaurants
53	Clubs
<b>54</b>	<b>Lexicon</b>

# Welcome at TUM

## Student Council Welcoming

We, the Student Council of Mathematics, Physics and Computer Science, welcome you to TUM.

Your studies here will be a fun, but also possibly a quite exhausting time. While you are trying to get used to your new university, we hope you will also take the time to find a balance somewhere outside of uni.

For a majority of the time, studying at TUM is quite fun, even if you may doubt that as exam period rolls around. Explore Munich, do

some nonsense on campus and fight your way through what you are confronted with together.

If you are at a loss, you will be helped, you only have to ask. Do not hesitate to contact your fellow students and also the student council. As a student council, we are your interest group and it is our task to help you.

Do not underestimate your studies, but also take them with humour. With this in mind, we wish you a good start to your studies!

# Dean Welcoming

## Mathematics Dean

Welcome to one of our Master programs in mathematics! I congratulate you on striving for mastery in one of the greatest intellectual adventures that the exact sciences have to offer.

Even though the beginnings lie a little behind you already: what actually is mathematics? On our homepage we write: “To study mathematics is to network, to occupy oneself with modern technologies and to practically apply current research“. I could of course now extensively philosophize about the science of structures and patterns, and about the usefulness and applicability of abstraction as a focus on the essence, only then to intensively contemplate the „unreasonable effectiveness of mathematics“, as Physics Nobel Prize Winner Eugene Wigner did.

Instead, let us together continue to occupy ourselves deeper with mathematics. As when learning a foreign language or a musical instrument, the start is always difficult and the path often stoney. You need to practice, try out different methods, make mistakes. But you have learned to be active and to stick at it, to be curious and to ask questions, to tackle problems strategically. The championship which lies ahead of you will continue to demand a high intellectual input - only then can you master a mathematics degree course. We provide experienced companions to help you on your journey, and after a while, you will no doubt increasingly understand why mathematicians continually enthuse about the unlimited gain in knowledge which their science brings. I am certain that one or another intellectual triumph lies ahead of you, and to speak with the

words of Georg Cantor: the spirit of mathematics lies in its freedom. Discover this freedom for yourself.

Folkmar Bornemann, Dean of the Faculty of Mathematics.

## Physics Dean

Dear new students,

we welcome all of you warmly at the Physics Department of the Technical University of Munich (TUM). Your choice fell on a university of excellence and a Department with an outstanding profile. Both our research strength and broad teaching portfolio led durably to highly qualified graduates. This is for notably demonstrated in numerous top positions in national and international rankings. From exploratory research to the development of state-of-the-art high-tech applications: with more than 6 000 employees and more than 13 000 students, the Garching Research Campus north of Munich is one of the largest and most modern science and training centers in Europe. TUM's physics department is embedded in this environment as the academic home for more than 1000 students, 300 doctoral candidates and 300 scientists. The close connection with a large number of leading research institutions both in Garching and the Munich research area offers ideal circumstances for the qualification of our students as well as a wide range of scientific opportunities. This cycle is reinforced by the interdisciplinary diversity on campus attracting scientists from many countries and scientific areas. Physics not only forms the basis for our understanding of nature from the subatomic to cosmological scale, but also plays a key role in

the development of new materials and pioneering technologies. Frequently it is not realized how often results from research in physics interfere in our daily life or the economic development of our countries. Especially now, as we face great challenges like those concerning climate or energy, bright spirits turning their interest towards science and technology are in high demand. As a student of physics, you will show that you are prepared to cope with the great questions and challenges of humanity in the coming decades. As future physicists, you will have the exciting opportunity to contribute to a gain in knowledge, to innovations and problem solving. Finally, I wish you a smooth and productive start to your studies and a successful first semester!

Johannes Barth, Dean of the Faculty of Physics

#### **Informatics Dean**

Welcome to TUM and to IN.TUM! The beginning of the winter term is kind of the big “changing of the guards” in our academic year, since both our master’s and our bachelor’s programs are open to new students who want to dive into their education with us. There, our eight master’s programs are far from being a “little brother” only: In the last academic year, we could welcome more than 1,100 new master’s students to IN.TUM - a number only slightly smaller than that of our bachelor’s beginners!

No question - big is challenging, but everyone in our department is highly committed to the teaching side of our profession. And big is also beautiful - there is hardly any sub-domain of informatics you won’t find here. And we are further expanding our portfolio - currently in par-

ticular in fields such as artificial intelligence and machine learning, but not limited to these. Whether in core informatics or in the numerous interfaces to science, engineering, life sciences and medicine, the social sciences, and the humanities - you’ll find your place to learn, to exchange ideas, to contribute, and to create. And you’ll never walk alone, you’ll always find a team of fellow students to share your enthusiasm.

Of course, as you all know, this year is very special, since the Corona virus became the ruler of our everyday lives, suddenly and completely. So let us join forces in overcoming this crisis, in trying to make your studies an experience as normal (in terms of the pandemics) as possible, but also as special (in terms of Munich, TUM, and IN.TUM) as possible. As always, there are also huge chances and opportunities, in particular from the informatics perspective. Hence, knowing that you have chosen a field that won’t have any breathing problems in such kind of a crisis is a good feeling, isn’t it?

So enjoy your studies, also and in particular in these Corona times. And do it in the most noble sense of the word. But also enjoy what Munich and Bavaria have to offer, in any respect - welcome!

Hans-Joachim Bungartz, Dean of the Faculty of Computer Science

# TUM in numbers

TUM traditionally leaves out no opportunity to praise its own achievements. We follow this motto and therefore present some facts and figures here. All data is, if not explicitly stated otherwise, taken from the publication „Die TUM in Zahlen“ from the year 2020. All information is without guarantee.

## 42.705 students

- 13,461 (32%) in the first semester
- 15,468 (36%) female students
- 13,858 (32%) international students

## 15 departments

## 172 Programs of study

- 47 Bachelor
- 106 Master

## 1,103 Promotions

## 10,825 employees

## 594 Professor

- 18% from abroad
- 20.9% female professors

## 82,903 members of the Alumni Network

**17 Nobel Prizes** for example: Rudolf Mößbauer (1961), Hans Fischer (1930) or Joachim Frank (2017)

## 6 main campuses in Germany

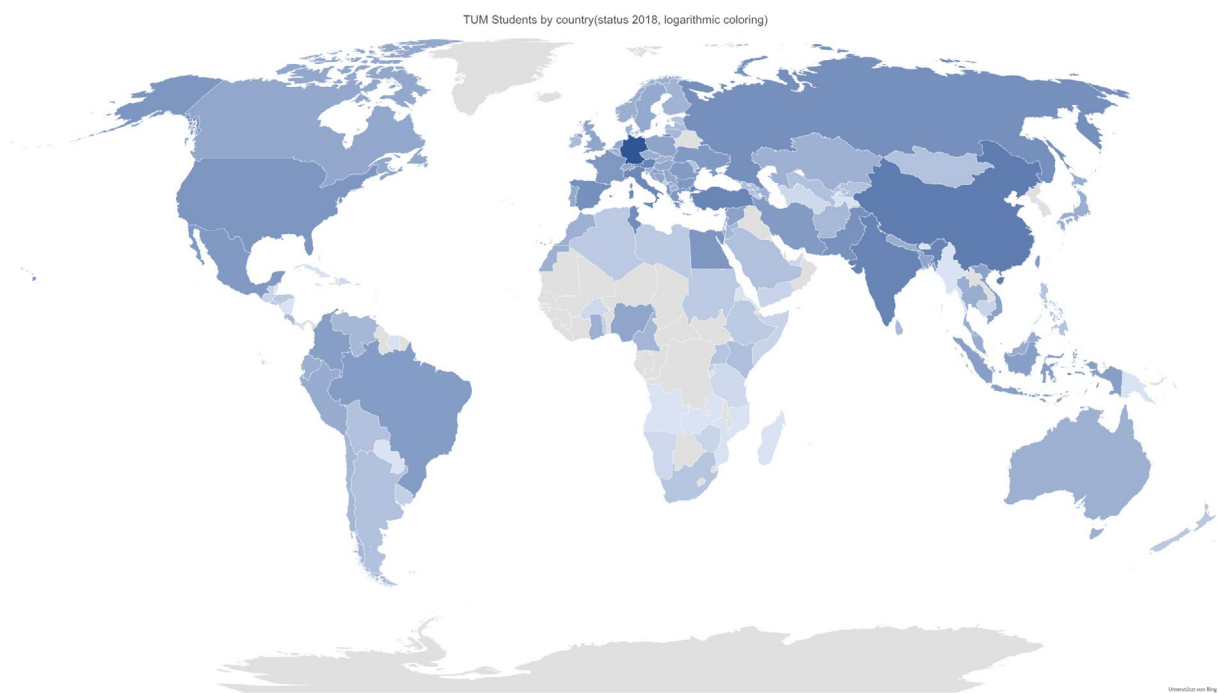
- Munich
- Garching
- Freising-Weihenstephan
- Straubing
- Taufkirchen / Ottobrunn
- Heilbronn

## 75 company foundations per year

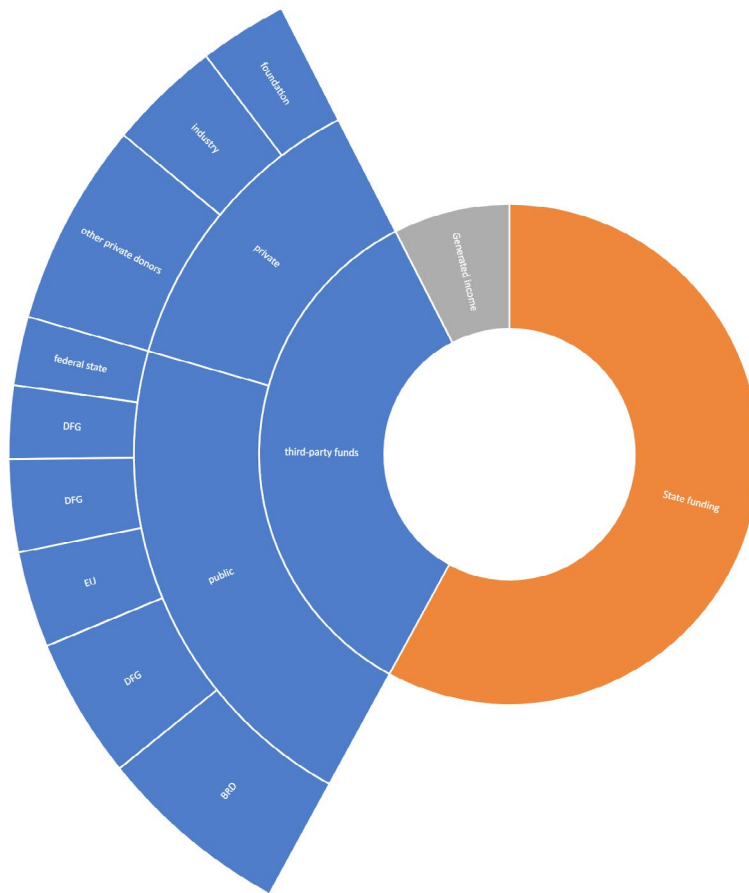
**1770.6 million euro budget** (fiscal year 2020, with hospital)

- 783.9 million euros Bavaria
- 398.0 million euros in third-party funding
- 588.8 million Euro generated income

## Where do the students come from?







TUM is the German university that receives the most third-party funding.

## The SET

The study introduction days or in german „Studieneinführungstage“ (SET) - an event you should not miss as a first-year student!

In order to avoid large crowds, campus tours in small groups will hopefully be possible from 10 October. The real program starts then from 14 October. with a welcoming event. Spread over 4 days you will be offered a full program with informative and entertaining events: Reaching from an IT-introduction to an campus rallye, from a welcoming by the deans in a livestream to opportunities to get to know each other in Discord, everyone gets their money's worth. In addition, we are organizing a city rally in Munich, in the open to minimize any possibility of infection.

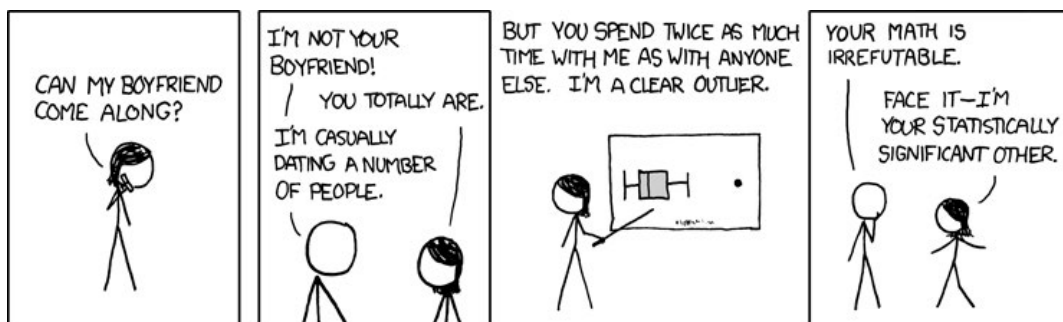
To ensure that all these events run smoothly and nothing is forgotten, the SET division starts with the preparations many months before. For the freshmen-bags the content has to be organized and the bag design has to be determined. Many new events like the city rallye have to be completely rethought and innovated this year, texts for the freshmen's guide have to be researched & written and T-shirts have to be printed - and these are only the obvious topics!

For this quantity of tasks the SET department grows each spring suddenly from momentarily 4 speakers (quasi the „main organizers“) by about 40 organizing helpers; shortly before the SET then again up to 60 tutors join the team. Only with sufficient commitment and team spi-

rit can one offer introduction days for the enormous number of freshmen students coming every year.

For the MPI student council, the introductory days are one of the highlights every year, even though they are associated with a lot of stress

and confusion. We give it our best to be able to give first-year students an easy start to their studies and to offer numerous opportunities to get to know their first fellow students - perhaps you will be back again as a tutor or organizing helper at the next SET ;)



<https://xkcd.com/539>

# Your Start in Studying at TUM

The first weeks of your studies at a new university will probably bring you into new and unknown situations. Especially now, since most of the events only take place online.

Of course, this may not be the reason for neglecting to make contact with your fellow students! If you build yourself a good circle of

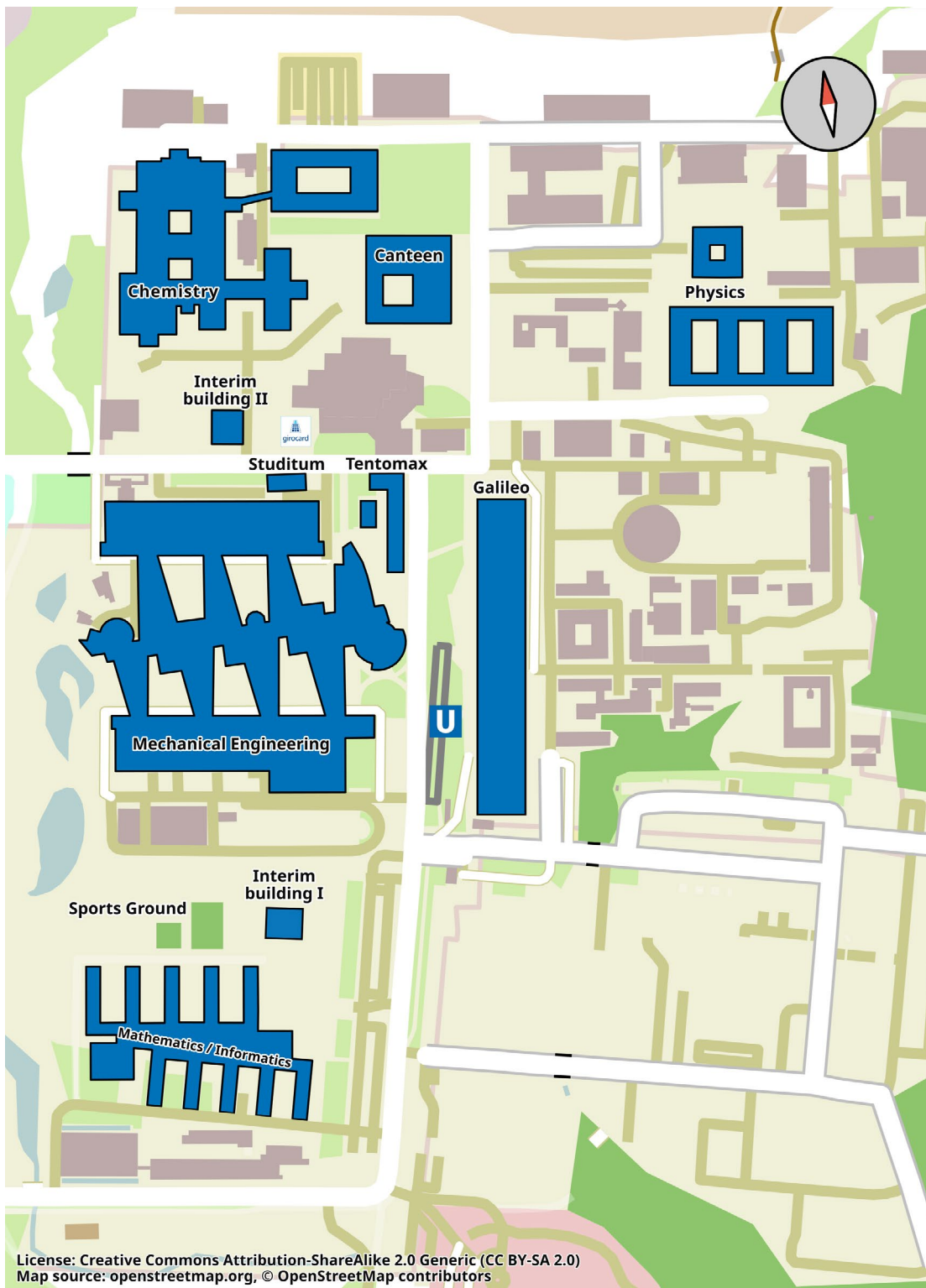
friends here, your studies will be much easier and in a group you will get through difficult and frustrating times more easily.

If you have any questions about your studies or other study-related topics, you are welcome to visit us at the student council. We are happy to help you if we can!

# Campus

With 5 departments and about 13 000 students, the campus in Garching is the largest of all TUM campuses. Since the plan to establish a new campus in Garching in the 1960s, it has

been growing steadily. To help you find your way around this large campus, we will provide you with an overview in the following.



## Campustour Video

During the semester break, we have shot an interactive virtual campus tour. You can participate by following the following link: <https://bit.ly/3imlXpg>



## Room numbers

To find a room you can also enter the room number on <https://finder.tum.sexy>



### MI (Mathematics/Informatics) Building

- Format: xx.yy.zzz  
x: floor  
y: building section/finger  
z: number
- Example: The student council office 00.06.036 is on the ground floor of finger 6 and has room number 36.
- Important lecture halls:  
The largest lecture hall is the Friedrich L. Bauer Lecture Hall (00.02.001, MI HS 1) directly left of the main entrance. MI HS 2 (00.04.011) is on the opposite side left of the main entrance and MI HS 3 (00.06.011) on the right.

### Engineering Building

- Format: MWxyzz  
x: floor  
y: building section/finger  
z: number

- Important lecture halls:  
The Gustav-Niemann-Hörsaal (MW0001) and the Rudolf-Diesel-Hörsaal (MW2001) are located in the round structure directly at the main entrance, the Ernst-Schmidt-Hörsaal (MW1801) is at the rear end of the building.

### Physics Department 1 (main building)

- Format: xyzz  
x: floor (starting at 1 in the basement)  
y: building section/finger  
z: number
- Example: The student council office in room 57 and corridor two of the ground floor has therefore the room number 2257

### Physics Department 2

This building is accessible via a bridge on the north side of the main building.

- Format: xyy  
x: floor (starting at 1)  
y: number

### **Main campus**

- Format: xyz for the core of the campus, Nxyz for the northern buildings (brick buildings connected to the core by a bridge over the Theresienstraße)  
x: floor  
y: building section  
z: number

### **Garching-Hochbrück**

The buildings in Garching-Hochbrück are located at the Parkring, which can be reached from the U6 (Garching-Hochbrück station) by foot.

- Format: BCw x.yy.zz  
w: building  
x: floor  
y: building section  
z: room number

The rooms starting with BC2 0. are located at parking 35-37, next to the Quantum (left of the Edeka), those starting with BC2 3. are at the same address, however the entrance is to the right of the Edeka. Rooms starting with BC1 are found at Parking 11-13. To get there, continue straight from the underpass and cross the road (Parkring). Follow the path straight on to get to the lake. Go half-way around the lake and continue to follow the path to the north to arrive back on the Parkring. The building will be diagonally to your left.

### **Services at the campus**

Behind the interim lecture halls between the MI building and the engineering department are sports fields for beach volleyball, basketball and table tennis. There is also a soccer pitch between the mechanical engineering building and the large gravel parking lot. Equipment such as balls and rackets can be borrowed for a deposit (StudentCard) in the student council's office (room 00.06.036, MI building). Right next to the sports grounds is a small building with showers, which can be accessed by holding your StudentCard against the reader at the entrance door. Next to the sports grounds to the west there are two small lakes. Especially in the summer you can take a short break and relax here. In the Engineering Building there is a copy shop, which also prints theses. Further ahead in the building there is also a small stationery shop. Here you can get everything you need for the daily university life.

To the left of the old cafeteria building (in front of the chemistry building) there is a cash machine of the „Sparkasse“. Unfortunately, this

is the only one on campus until today. Next to the ATM there is also a mailbox of the Deutsche Post, in case you need to send something analogue.

In the future, the multifunctional building called Galileo which is located right next to the underground station, will house offices and an Audimax, as well as shopping facilities, restaurants and cafés, and a hairdresser's salon. The fitness studio in the basement is already opened.

The new canteen located next to the Physics department is offering a diverse choice of affordable meals (including vegetarian/vegan dishes) for lunch. You can help yourself at one of the serving counters, then pay using your Legic card (StudentCard) at the self service checkout.

# Food

You can find current menus at  
<https://hunger.tum.sexy>.

## MI Bistro €€

📱 Cash

Opening hours

Monday to Friday: 7:00 to 19:00  
Lunch starts at 11:00

Sells sandwiches, candy, fruits.

## geniessBar at MI €€

📱 Cash

Coffee, pizza slices and other baked goods

## Mensa €-€€

📱 StudentCard, rechargeable by autoloader or  
by cash in the entrance area

Opening hours

Monday to Friday: 11:00 to 14:00

Wide customizable choice of dishes

Self-service

## „Uncle Luu“ at the maypole €€

📱 Cash

Opening hours

Monday to Friday: 11:00 to 14:30

Daily changing menu (asian)

## „Gourmet Imbiss“ at the maypole €€

📱 Cash

Opening hours

Monday to Thursday: 11:00 to 16:00  
Friday: 11:00 to 15:00



Opening hours during the semester break

Monday to Thursday: 11:00 to 15:00  
Friday: 11:00 to 14:00

Sells sausage, chips, kebab (box)

## Riedmair bakery at the maypole €€

📱 Cash

Opening hours

Monday to Friday: 6:30 to 19:00

## StuCafé in MW €€

📱 StudentCard

Opening hours

Monday to Friday: 8:00 to 13:00

## StuCafé in the canteen €€

📱 StudentCard

Opening hours

Monday to Thursday: 8:00 to 16:00  
Friday: 8:00 to 15:00

Opening hours during the semester break

Monday to Thursday: 8:30 to 15:30  
Friday: 8:30 to 14:30

Usually a warm dish

### **Chicco di Caffè €€**

 StudentCard and cash

Opening hours

Monday to Thursday: 7:00 to 19:00

Friday: 7:00 to 17:00

Opening hours during the semester break

Monday to Thursday: 7:30 to 17:00

Friday: 7:30 to 15:00

Sells coffee, drinks, muffins and hot dogs

### **Campus Cneipe (C2) €**

 Cash

A bar run by students

Opening hours

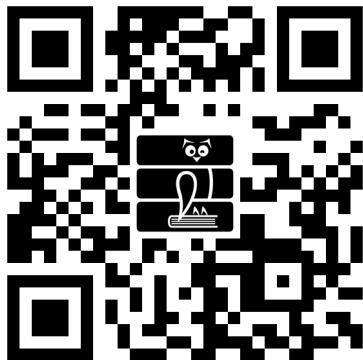
Tuesday to Thursday: 16:00 to 23:00

Karaoke nights

# Learning Locations

In case of motivation problems or a „study blockade“ it is often worthwhile to change the place of learning from time to time, e.g. to take advantage of the productive atmosphere in libraries or to clear your head. Although the current situation makes it slightly difficult, there are a number of opportunities for this. At <https://rooms.tum.sexy> used to be possible to view the occupancy of some rooms (primarily in the MI, MW, StudiTUM and the libraries).

However, since the opening hours of the individual locations can currently vary greatly, the service has been temporarily suspended. As soon as regular operations can start again, the site is certainly worth a recommendation:



**Since the opening hours of the individual locations can change at very short notice, we have refrained from listing them in detail. You'll want to inform yourself on the internet before you set off!**

The large **root libraries of TUM and LMU** offer a lot of reading places and are always quiet. Furthermore, there are group study rooms with whiteboards, which can be reserved, and a Speaker's Corner, where you can practice speeches and presentations.

The **MI library** is located at the rear end of the main hall. It also offers a large selection of literature for mathematics and computer science.

Additionally there are group study rooms in the library which can be reserved at the counter on the ground floor. Outside the library on the first floor there are individual study rooms, the so-called „Carrels“.

The **Physics library** is located to the right of the main entrance of the physics building. Due to its remote location, this sub-library is usually less frequented compared to the other sub-libraries on campus. Of course, you can also find the specialist literature for physics here.

The **MW library** is located at the main entrance of the MW building on the first floor.

The **Chemistry library** is located in the chemistry building.

The current opening hours of the libraries can be found here:

<https://www.ub.tum.de/en/oeffnungszeiten>



The **StudiTUM buildings** on the campus city center and Garching (and in Weißenstephan) are normally available for students at any time, 24/7. The equipment is very modern and ranges from group rooms to rooms for quiet work. They offer a large amount of space and you can usually find a place to study there. You can find more tips and current information here: <https://www.sv.tum.de/en/sv/das-machen-wir/projekte/studitum-houses-of-students>





Rooms not in use for teaching can also be used for self-study. Depending on how lucky you are, they might even be completely empty. During the lecture period, however, there are hardly any rooms available before 18:00 due to lack of space.

The „**Große Rechnerhalle**“ or „**large computer hall**“ (00.05.011) is located on the right of the main entrance of the MI building. There you can find 89 computer workstations. Further details about the computer halls can be found in the IT-guide.

There are benches and tables in the **MI-Magistrale** and in the **entrance area of the physics building**. Here it is usually quite noisy, but if you just want to quickly go through the next homework assignment in a group, they are ideal.

**Outdoors**, outside the stuffy rooms, there are some nice areas available as well. Behind the MW and MI buildings there is a small park with a lake around which benches with tables are placed. Unfortunately there is no Wi-Fi there. On the meadow around the Alte Pinakothek there is Wi-Fi, but no tables.

Finally a few tips:

- To use the university library, for example to borrow books, you have to agree to the library terms of service on TUMonline.
- To gain access to the StudiTUM houses, a separate agreement is also required on TUMonline.
- Try to find a quiet place where you can work for a long time without being distracted.
- You should not have to worry about power sockets, they are available almost everywhere.
- During the exam phase, all rooms are traditionally occupied very quickly. Try to find a place as early as possible to get something.

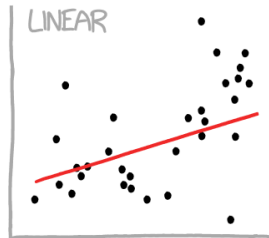
## Questions and Help

Here you will find the addresses and telephone numbers of some important institutions. For the telephone numbers it should be noted that outside the Munich local network the area code 089 is required.

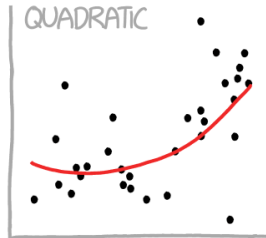
<https://mpi.fs.tum.de/en/for-students/addresses-and-contact-persons/>



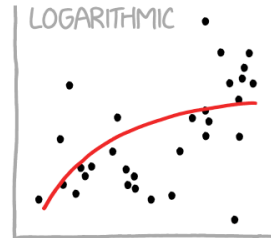
## CURVE-FITTING METHODS AND THE MESSAGES THEY SEND



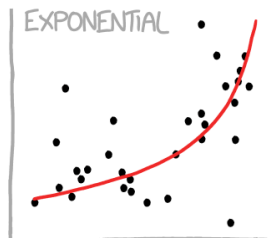
"HEY, I DID A  
REGRESSION."



"I WANTED A CURVED  
LINE, SO I MADE ONE  
WITH MATH."



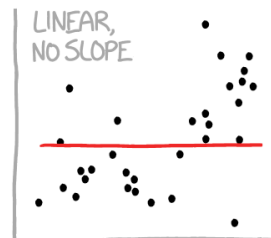
"LOOK, IT'S  
TAPERING OFF!"



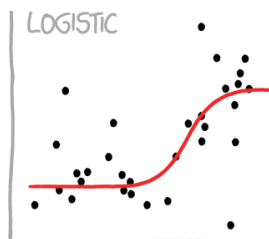
"LOOK, IT'S GROWING  
UNCONTROLLABLY!"



"I'M SOPHISTICATED, NOT  
LIKE THOSE BUMBLING  
POLYNOMIAL PEOPLE."



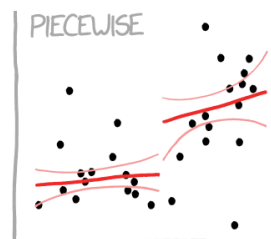
"I'M MAKING A  
SCATTER PLOT BUT  
I DON'T WANT TO."



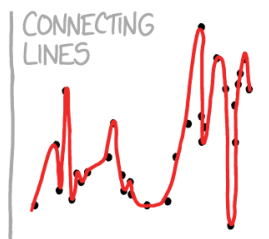
"I NEED TO CONNECT THESE  
TWO LINES, BUT MY FIRST IDEA  
DIDN'T HAVE ENOUGH MATH."



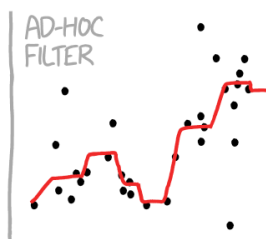
"LISTEN, SCIENCE IS HARD.  
BUT I'M A SERIOUS  
PERSON DOING MY BEST."



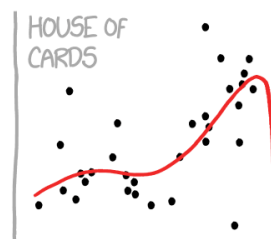
"I HAVE A THEORY,  
AND THIS IS THE ONLY  
DATA I COULD FIND."



"I CLICKED 'SMOOTH  
LINES' IN EXCEL."



"I HAD AN IDEA FOR HOW  
TO CLEAN UP THE DATA.  
WHAT DO YOU THINK?"



"AS YOU CAN SEE, THIS  
MODEL SMOOTHLY FITS  
THE— WAIT NO NO DON'T  
EXTEND IT AAAAAA!!!"

<https://xkcd.com/2048>

# Uni etiquette

## In person:

1. Inform yourself about current regulations, keep your distance and wear a mask in closed rooms. Sounds trivial, because it is. Must still be mentioned.
2. If you are late for a lecture, enter the hall as quietly and unobtrusively as possible. If possible, use one of the back doors and do not walk under the blackboard. Ideally, you will quickly find a seat at the edge of a row of seats. Bench climbing is never an appropriate workout.
3. Stay as quiet as possible during the lecture. Do not speak too loudly to your seat neighbors, it is best not to do so at all. If you get bored, there are many other ways to distract yourself. Alternatively, you can skip the lecture or, even better, take your time to watch a recording or the livestream.
4. If you think that the lecturer made a mistake, please point it out - even taking the risk that you are wrong. This benefits everyone: If you are wrong, your misunderstanding will be cleared up. If you are right, you can save everyone involved a lot of headaches and get to feel really smart. This applies to both online and face-to-face lectures. In most cases there is an established feedback system, alternatively a raised hand will do.
5. Very few lecturers insist on being addressed with their full title, though there is no rule without exception. However, the persons concerned will let you know. By the way, most tutors will offer the “du” of their own accord at some point. For student tutors, first-name form of address is appropriate. Don’t stress yourself though, nobody will take a faux-pas personally.

6. If you don’t like your tutor, it is usually possible to change your practice group easily. This is often the case even if there is no officially announced process.
7. If you borrow books from the library, make sure that you return them on time and in good condition. Often other students want the exact book you just borrowed. They will be very grateful if you return it on time.

## Online:

1. The absence of moderation is no permission to go wild. Don’t spam, stay friendly and remain on topic.
2. Whether you should switch your camera on or off depends on the format of the event. Many tutors are grateful to have faces in front of their eyes - but will usually let you know explicitly.
3. Always mute your microphone when you are not speaking. Also notify other participants if they are unwittingly broadcasting their surroundings.
4. Even though it is usually much less awkward to be late for a digital event, you should still do your best to be on time. This is especially true for smaller events such as exercises, where your absence may affect others as well as yourself.
5. Often the tutorial leader of a course organizes recordings of the lectures as well as individual exercises. However, it is never acceptable to create private recordings of closed courses without explicit permission.
6. If you want to make a comment during an exercise, it is best to “raise your hand” beforehand either through an integrated

functionality or through chat. Avoid interrupting others - nobody benefits from a wild mix-up.

7. Be careful with your tone of voice. Especially in the written word, it is often difficult to detect sarcasm. Better stay on the safe side and risk appearing “too professional”, at least nobody can hold that against you.
8. Participate in exercises! This will not only help you understand the content of the

exercises but also motivate your fellow students and the tutor. If the exercise only consists of uncomfortable silence, that is not a pleasant experience for anybody involved.

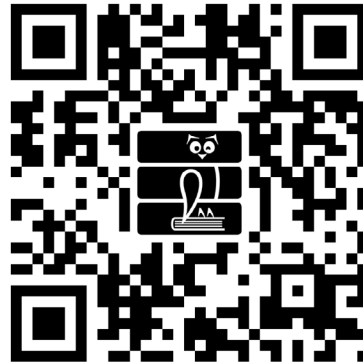
9. Be patient with yourself and others. Technical problems, misunderstood communications or planning mistakes can happen to anyone, and it doesn't help anyone if you get too upset about it.

## Backpack of a student

<b>Knapsack Problem</b> What to put into your knapsack?	
1st semester	8th semester
	

# IT Guide

In this chapter we give you a rough overview of the IT infrastructure you will use during your studies and how to use it. Mainly there are your accounts and e-mail addresses, access to the WiFi and thus the Internet, and use of the infrastructure at our campus, such as the computer hall. For any remaining questions, you can find help at the central IT support of the TUM at <https://www.it.tum.de/en/home>



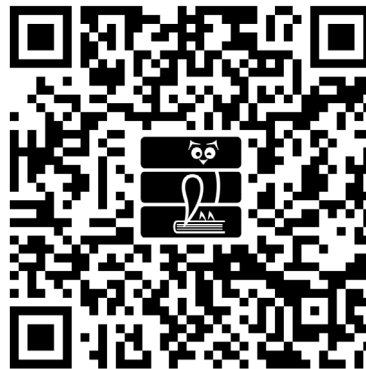
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## TUMonline

You can reach TUMonline at <https://campus.tum.de>.



You will use this platform for the administration of your studies. Among other things you can register there for courses and exams, print out your matriculation certification or search for people, including other students. Take a little time to look around in TUMonline. An FAQ about TUMonline can be found at <https://www.it.tum.de/en/faq/it-services/tumonline>.



After registering for events and exams they will appear in your calendar. You can view this calendar in TUMonline under Resources > Calendar and also export it as iCal, CSV or XML. You can generate the link under „Publish“. Anyone who gets hands on this link can see your calendar, so be careful with it.

To gain access to the StudiTUMs you need to accept the terms of use of them in TUMonline under Services > StudiTUM Administration (read the chapter „Learning Locations“ for more details). Afterwards you can enter them using your StudentCard.

## Moodle

Many courses use the Moodle platform to provide material and exercises, in case no chair-owned infrastructure is being used. You can reach Moodle at <https://www.moodle.tum.de/?lang=en>.



An FAQ is available on the Moodle page at the top left.

## Accounts

In your studies you will mainly use your LRZ identification. It follows the schema CVDDCVC, where C is a consonant, V a vowel and D a digit. For example, if your identifier is ga05mat, this is also your username for, among other things, TUMonline and Moodle. In the following we use this identifier as an example. Your LRZ-ID with the appendix „@mytum.de“ is also called MyTUM-access data or MyTUM login.

If you study computer science or mathematics, you have another identifier. It is generated using your last and first name. Your computer identification („Rechnerkennung“) is relevant for the services of the Computer Operations Group (RBG) in the mathematics/informatics (MI) building. This includes logging on to the computers in the computer halls and printing. There is a free printing quota of 50 pages every semester. You receive this account at the respective mathematics/informatics Infopoint. An e-mail address is also bound to this identification.

If you are studying physics, you can use the computers in the computer room of the physics department with your LRZ identification. You can also print there, you will have a monthly free quota of 60 pages (as of 09.2019).

## Security

To prevent third parties from gaining access to your accounts, a secure password is essential. This password should be at least ten characters long and contain characters from two of the three groups: upper/lower case letters, numbers and special characters. Passwords can be memorized by using mnemonics, for example „In 2020, my account will not be hacked for once because the last time was quite embarrassing!“ results in „l2,mawnbhfobtltwqe!“. Since this password is in this guide, it is useless as a secure password, just like all other passwords you have on paper hanging on your screen. Using a password manager, such as KeePass, makes it easier to manage individual passwords for each login. The keyfile can also be synchronized to other computers via cloud services. A strong master password is absolutely necessary.

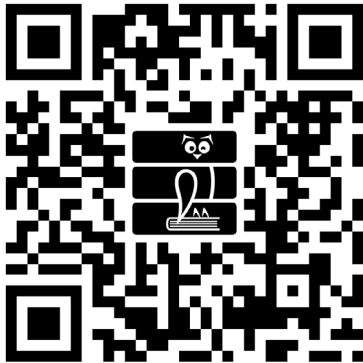
On most TUM sites and services you authenticate yourself with your LRZ ID and the corresponding password. If third parties got knowledge of this access data, it would allow them access to many TUM services, as TUMonline or Moodle. For example, someone who gets access to your TUMonline account could log you out of exams. So choose this password carefully! You can change it in TUMonline.

## Email

You have an email address that belongs to your LRZ ID by default, in our example ga05mat@mytum.de. At this address you will receive all relevant information about your studies, including notifications from TUMonline, letters from TUM and mails from people who want to contact you. This address is your default address and will be displayed in the TUMonline person search. It makes sense to create a more manageable address, for example firstname.surname@tum.de. This is possible in TUMonline under Resources > E-mail Addresses. This can then be set as the default address, TUM will address mails to you to this address and it will be displayed in the people search.

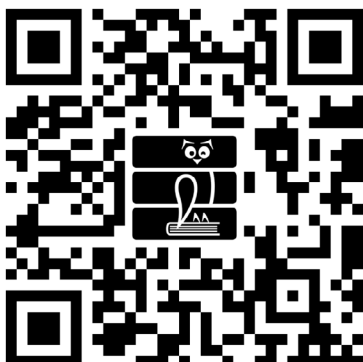
You can choose in TUMonline whether your emails should be forwarded to another address or not. If you decide not to forward your mails

you can retrieve them with an email program of your choice, for example Thunderbird. This is especially recommended if you receive mails frequently on your TUM address or if you want to write replies from this address. You can find instructions on how to set up your TUM address in your mail program at <https://doku.lrz.de/display/PUBLIC/IMAP-Clients>, but normally your client should automatically recognize the settings.



Your password for access to your mails is the LRZ identifier. If you do not forward your mails, you can also access them via webmail. You Can access it in TUMonline under Services > TUM Mailbox (Exchange).

As a computer scientist and mathematician you have another e-mail address that is bound to your computer ID ("Rechnerkennung"): computerid@in.tum.de. You will only need this e-mail address for the services of the computer operating group (RBG), for example the notification of a completed print job. You can set it up at <https://ucentral.in.tum.de>, where you can also set up a redirection to your TUM address.



## Computer hall

For computer scientists and mathematicians, the computer halls in the mathematics/informatics building offers workstations with Linux and Windows environments. The large and the adjoining small computer hall are located on the ground floor between fingers 5 and 7. You can print on the printers in the small computer hall, the contingent of which you can buy from the student council in the script sales office. Using the command "lpquota" you can display your printing quota. You can also connect to the computer hall remotely via ssh, the user is your computer ID, the address "lxhalle.in.tum.de". A remote desktop environment is also available. You can find more information in the RBG Wiki at <https://wiki.in.tum.de>. The RBG-Helpdesk is located in the back part of the small computer hall and will be happy to help you with any questions. There are also some even smaller computer halls in the MI building, which usually have workspaces as well.

## University Library, OPAC and eAccess

At <https://www.ub.tum.de/en/online-catalogue> you can find the online catalogue of the University Library.



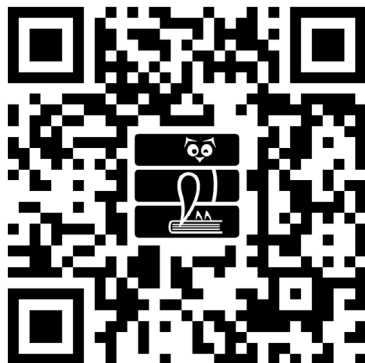
After selecting a pick-up location you can scroll through it. Literature that is not available locally can often be delivered free of charge from another part of the library within a few working days. A click on "Order" really orders the book, without asking! So make sure that you are ordering the right copy. You will then be notified when the book is delivered and you can borrow it. In order to borrow books, you have to activate library use for your StudentCard in TUMonline for the first time. This is possible under Services > Library. Then you have to log in



to your library account on OPAC (<https://www.ub.tum.de/en/online-catalogue>) once using your library user ID (bar code number on the reverse of your StudentCard) and the default password which is your birthday and month of your birthday in the format DDMM.

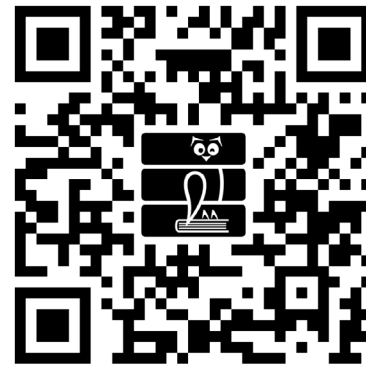


The University Library has licenses for the on-line access of many publishers. You can use them via the eAccess service. You can find more information on the University Library's website at <https://www.ub.tum.de/en/eaccess>, the eAccess bookmarklet is particularly useful.



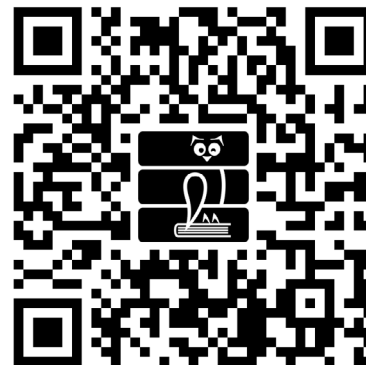
### Matching Platform for computer science

In some courses, mainly in computer science, a matching system is used to assign students to groups and courses. You can reach this at <https://matching.in.tum.de>. You enter your preferences according to popularity. After the deadline an algorithm carries out a fair allocation to the groups or courses. It is important that you enter all your possible preferences. Otherwise it might happen that you are not assigned to any of your preferences.



### WiFi

The WiFi network “eduroam” is available on the whole campus of TUM. This network is also available at other university locations and abroad. To set up this network correctly, follow the instructions of the LRZ at <https://doku.lrz.de/display/PUBLIC/eduroam>.



To use the “lrz” wifi network, a VPN connection to the Münchner Wissenschaftsnetz (MWN) is required. A guide can be found here: <https://doku.lrz.de/display/PUBLIC/VPN>, An explanation on how to install the VPN client here: <https://doku.lrz.de/display/PUBLIC/VPN+-+eduVPN>. The “BayernWLAN” network is public and thus unsuitable for primary use. Tip: You can always connect to the more secure eduroam where you can find BayernWLAN. Other available networks on campus should not be used.

### TUM Campus App

The TUM Campus App combines some of TUM's offers and services in one app. Here you can, for example, access your calendar and view Mensa menus. You can find further information at <https://www.tum.app/>.



### Roomfinder and learning rooms

The TUM Roomfinder shows the location of a given room, if available. You can find it at <https://portal.mytum.de/campus/roomfinder>.



*In order to make better use of the very limited number of learning places, the student council has set up a system that displays the occupancy of learning rooms: <https://www.devapp.it.tum.de/iris/app>.*



### Link collection (tum.sexy)

Before you try to memorize all the links that you will visit frequently, have a look at <https://tum.sexy> and remember only this one instead.



There you will find a collection of links with redirections to most services like TUMonline, Moodle, the Roomfinder, but also to courses and much more. All of them also have their own shortcut, which is much easier to remember.

# Corona Webtools

## Lectures

Due to current regulations, lectures will be primarily held online. Inform yourself what platforms your lecturer will be using, as unfortunately the choice of learning platform may differ from lecture to lecture. You will find that information in the respective moodle course, or on the course website. Here, we will briefly outline the most common learning platforms used: For live lectures, TUM-live (<https://live.rbg.tum.de>) may be used, most of the time, the lectures will be available to watch afterwards as well. TUM-live is also regularly used for streaming and recording lectures in times where the university is operating as usual. Some lectures may also use streams.tum for streaming and recording. This site has restricted access, you can only view the streams/recordings via a link that will usually be shared in the moodle course or on the course website. Another option the lecturer may use is to embed lecture videos into the respective moodle course using PanOpto. The videos can then be viewed on the top right of the moodle page, in the "Panopto" block. Especially the school of Management also regularly uses Lecturio ([www.lecturio.de](http://www.lecturio.de)) to provide lecture recordings. On this site you have to register using your LRZ-E-mail since the recordings are only available to TUM students. Sometimes, you might see lectures or Q&As being held using Zoom or BBB, these tools will be explained below.

## Communication

Some lecturers provide chatrooms or other communication platforms to discuss the lecture and homework and to ask questions. This should usually be pointed out in the first lecture of the semester or on the moodle course / course website.

## Exercises

For exercises, mostly Zoom and BigBlueButton is used. Zoom is used TUM-wide and can be

accessed either by browser (<https://tum-conf.zoom.us>) or using the Zoom client. To participate with your browser, enter the meeting ID and password under Join a meeting or open the meeting link. Then, don't allow the site to open the Zoom application and instead, choose Join in your browser. In the browser, you can also start your own meetings, however, you have to log in using your LRZ identifier. If you want to use the Zoom client, go to Login -> SSO and enter tum-conf. Then you can log in using your LRZ identifier. To participate in a meeting, you can also enter a meeting ID and a password, alternatively you can open the meeting link in your browser and open the Zoom client from there. BigBlueButton is primarily used in the Mathematics and Informatics departments. To participate in a BBB conference, simply open the shared link in your browser. You can make your own rooms on <https://bbb.rbg.tum.de> using your RGB login.

## Exams

Should it not be possible to conduct exams on the campus, there are a few possible tools that can be used. Your lecturer should inform you about the circumstances of your exam and the platforms used ahead of time. Usually there will also be a test run, where you can ask technical questions about the exam. Thus, we only briefly look over the different possible options: TUMexam provides a personalized PDF using TUMonline -> Achievements instead of a paper exam. This PDF has to be uploaded within the set upload deadline. Artemis also makes it possible to be given programming tasks that can be solved in the built-in IDE. Moodle can be used for multiple-choice (or regular) exams using E-Tests. Some departments may also use Proctorio here, a software that will record your webcam and screen during the exam to prevent cheating.

# Your Student Council

What would a university be without introductory days, without a semester ticket, without scripts and without parties?

All these things and of course much more are taken care of by your student council. It consists of students who work in their free time to improve the study conditions. One of the most important tasks of the student council is the representation of interests. Students are still a politically and culturally very active part of society and therefore have es-

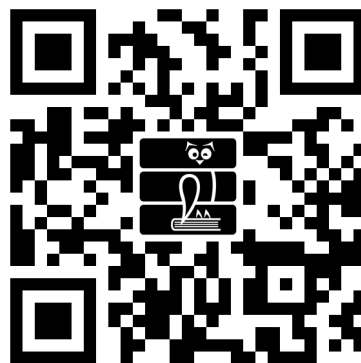
tablished structures from time immemorial to make themselves heard and to assert their own interests.

We also have a considerable **party infrastructure** and the capacity to offer a variety of additional **services for students**.

You can find more about this and what your student council and student representatives do on the following pages.

## The Student Council

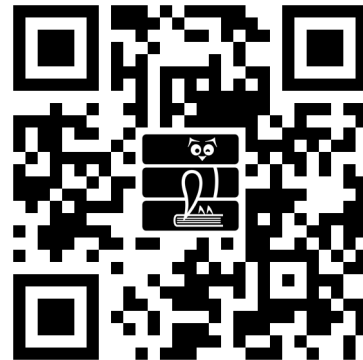
The MPI Student Council (the „Fachschaft MPI“) is made up of all students of the faculties of Mathematics, Physics and Informatics. In common parlance, however, the „Fachschaft“ usually refers only to those who are actively involved in university policy, events and the various student council units. In the following we would like to give you a short overview of some important parts of the „Fachschaft“. More information is available at <https://mpi.fs.tum.de/en>.



At least once a semester there is a general meeting (in German “Vollversammlung”). All students are welcome to attend. Major topics and tasks are discussed and decisions are made which are binding for the elected representatives. Plenary assemblies are held for each department (**Fachschaftsvollversammlung**, short **FVV**) as well as for all students of the university together (**Studentische Vollversammlung**, short **SVV**). In addition, the Student Council Committee takes place every two weeks. This committee serves the exchange of information within the student council and decides on all matters concerning the student council between the student council general meetings. In particular, the election meeting takes place shortly after the FVV, at which speakers and appointees for a semester are elected. Interested students are invited to attend the student council committee at any time to express their opinions and concerns. Dates for the next meetings as well as agendas and the possibility to register agenda items are available at <https://mpi.fs.tum.de/en/the-departmental-student-council/committees/student-council-committee>.



Besides, the MPI Student Council hosts a Newsletter-Channel on Telegram. There, messages about what’s currently happening in the Student Council or generally at the university are posted regularly. If you always want to stay up to date, you can join the channel here: <https://t.me/fsmapi>



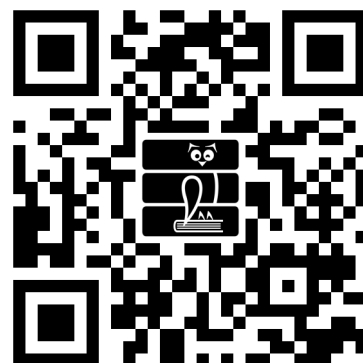
Long-term important tasks are organized by Study Council Units (in German “Referate”) and their speakers. The MPI student council currently has the following units:

#### **Computer Unit - [compref@fs.tum.de](mailto:compref@fs.tum.de)**

The CompRef takes care of the maintenance and further development of the server and PC infrastructure of the student council. Furthermore it administrates the helper tool, the student council website and the registration tool for the SET trip.

#### **Printing Unit - [druck@fs.tum.de](mailto:druck@fs.tum.de)**

The day-to-day business of the printing unit is script printing. The scripts that you can buy in the script sales office are printed one door further. In addition, the printing unit also operates 3d printing. You can submit models at <https://3d.mpi.fs.tum.de> and pick them up for cash at the script sales office.



**Finance Unit - *finanz@fs.tum.de***

The finance unit is a service unit that provides the monetary infrastructure of the student council. It manages all events of the student council and the day-to-day business. The financial unit speakers are responsible for controlling the income and expenditure, as well as keeping books and implementing the decisions of various committees and units. This also includes making sure that all expenses of the study support benefit our student body.

**Garching Unit - *garching@fs.tum.de***

The garching unit informs itself about e.g. building projects or mobility on campus and passes the information on to the students.

**HoPo Unit - *hopompi@fs.tum.de***

The university politics unit deals with current issues on faculty and university-wide level and supports the elected representatives.

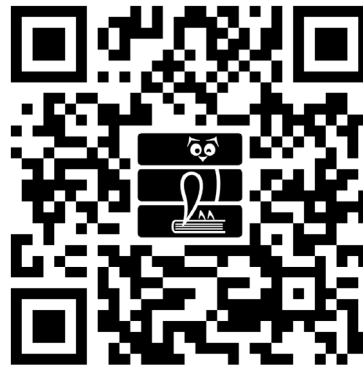
**Idea and communication Unit  
*ideen@fs.tum.de***

The Ideas and Exchange Department is committed to a more interesting campus life and offers people who are not active members of the student council an unbureaucratic and friendly contact point. Small and large project proposals are welcome; we do not expect a “self-commitment” to participate in the implementation of your own project proposals.

**impulsiv Unit - *impulsiv@fs.tum.de***

The impulsiv magazine is published at least once a semester by the impulsiv unit and contains interesting articles on various topics - partly in German, partly in English - as well as the so-called “discharge reports”, in which the unit speakers and appointees briefly reflect what they have done in the last semester. All editions can be downloaded from the Internet

as PDF files at <https://impulsiv.fs.tum.de> - the current edition is also available free of charge in printed form from the MPI Student Council. Anyone who would like to publish an article on any topic is invited to contact the impulsiv unit.

**Information Unit - *iref@fs.tum.de***

The iRef takes care of information gathering and spreading. It maintains the website, the social media pages and the telegram newsletter (<https://t.me/fsmpi>).

**SET Unit - *set@fs.tum.de***

The SET unit is responsible for the organisation of the introductory days. There are diverse different tasks. From organising events, such as the campus tours and IT introductions, as well as the joint breakfast, barbecues and pub crawls to writing this booklet.

**Script Unit - *skripten@fs.tum.de***

In room 00.06.039 of the MI building, our script sales office, printed versions of many scripts can be purchased for a nominal fee of mostly one Euro. The speakers ask the professors for permission to print, order new scripts from the printing unit and coordinate the sales. In addition, students of mathematics and computer science can purchase print quotas for the printers in the computer hall here. The price is 3.50€ for 100 pages and 30€ for 1000 pages.

### **Survey Unit - *umfrage@fs.tum.de***

The survey unit is responsible for the organisation and implementation of teaching evaluations at the faculties of Mathematics, Physics and Computer Science. The results are used to improve teaching and, if possible, are made available to students in the future. The core tasks include the maintenance and improvement of the survey tool, communication with the professors and the planning of the evaluations. In its work, the unit is in contact with both the student council and the faculties. If necessary other surveys are also conducted in the faculties.

### **Event Unit - *veranstaltung@fs.tum.de***

The events unit takes care of most things that are fun and not a party. The weekly games evening (every Monday from 6 p.m. in the MI-Magisträle), where you can try out board games with friends, Real Life Scotland Yard (once a semester), where Mr. X is chased through downtown Munich with the MVG, the LAN party every semester, where you can have fun with videogames and friends all night long, or the Pen and Paper evening, where you become a hero every first Tuesday of the month and can play an adventure game. No matter if you are a player or a helper, we are looking forward to you!

### **Appointees**

For tasks which do not fall within the scope of an unit, the Committee may appoint appointees. Among other things, there are equal opportunities appointees, who act as the first point of contact in cases of sexism, a room appointee, who is responsible for keeping our rooms tidy, a beverage appointee, who ensures that drinks are replenished, and many more.

### **Semester Representatives**

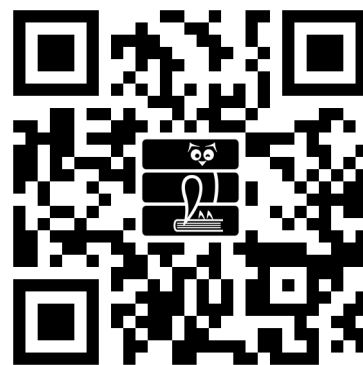
In addition, semester representatives are elected at the beginning of each semester. They take

care of the needs of a university class - similar to the class representatives in the school. They inform you about current topics, maintain contact between students and professors, and are your first point of contact for semester-specific questions. They are elected at the beginning of each semester.

### **Participate**

The “Fachschaft” represents the interests of the students. Your help in the student council allows you to play an active role in shaping the university and your department. You are cordially invited to participate in one of the fields of work of the student council. All students benefit from your involvement and it allows you to look behind the scenes of this university. If you have an idea or would like to change or design something in your faculty, the “Fachschaft” is the right place to be. You will also learn how to represent your interests and take leadership. You have more influence than you think!

**And now?** If you are interested in one of the units or appointee roles in the previous texts and would like to participate, just write an email to the respective unit or look us up on <https://fsmpt.de/en>. We are always happy about new faces and new ideas.



If you are still completely undecided and would simply like to take a look at the student council, then just drop by at 00.06.036.

**We are looking forward to meet you!**

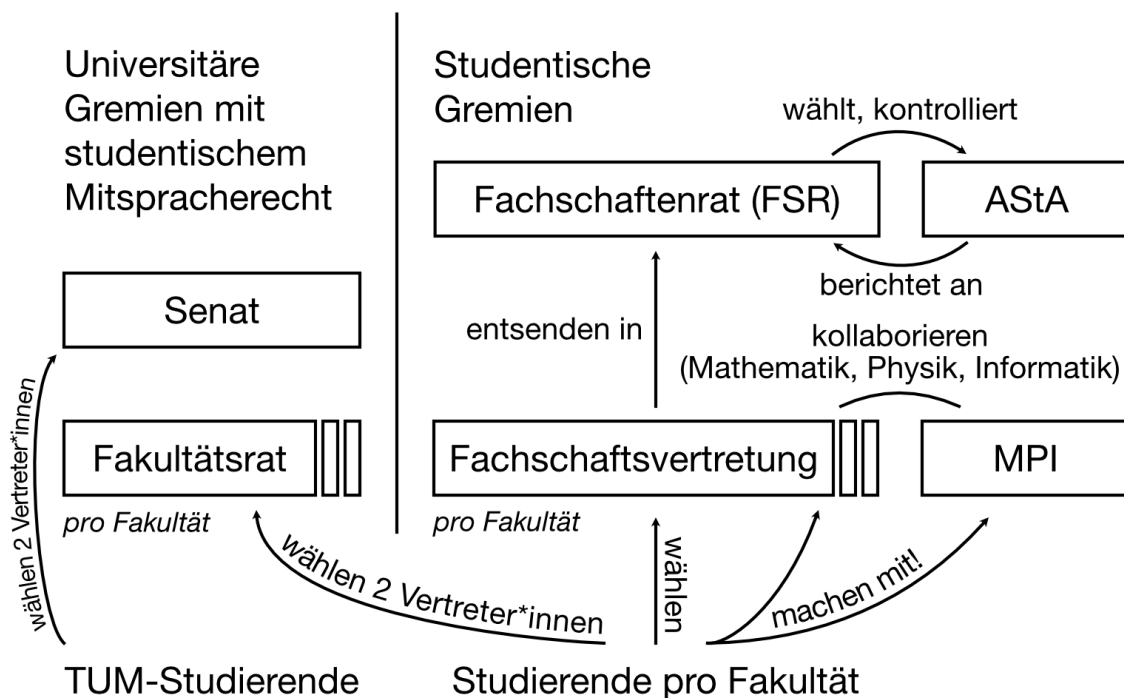
# University Policy

## Having a say at the university - does that even exist?

Of course, you can't go to the responsible committees and people in charge at the university to put forward and implement your concerns on every topic yourself. But there are good opportunities to bring in your ideas and opinions. **This is where you come in!** What are your wishes and suggestions? A bouncy castle on campus? Free dormitory places? Only if you pass them on to your student representatives can they be realized.

On a university-wide level, the student councils send representatives to the Fachschaftenrat (FSR), which passes resolutions on TUM-wide topics such as study grants or good teaching and makes statements on the study regula-

tions. The FSR has the right to nominate the student representatives in inter-faculty committees and elects the FSR chairpersons, advisors and appoints representatives and working groups to work on specific tasks or topics. The chairperson, advisor, senator and other staff members together form the university-wide student representation, which is responsible for the implementation of FSR resolutions and for the daily business. In addition, the student representation organizes various events, such as the open-air festivals TUNIX and GARNIX, and offers various services, such as the issuing of international student ID cards (ISIC) or the rental of sports equipment and laptops. To give you a better overview of the opportunities for students to participate in the organization of TUM, we have illustrated the committee structure here:



\* German



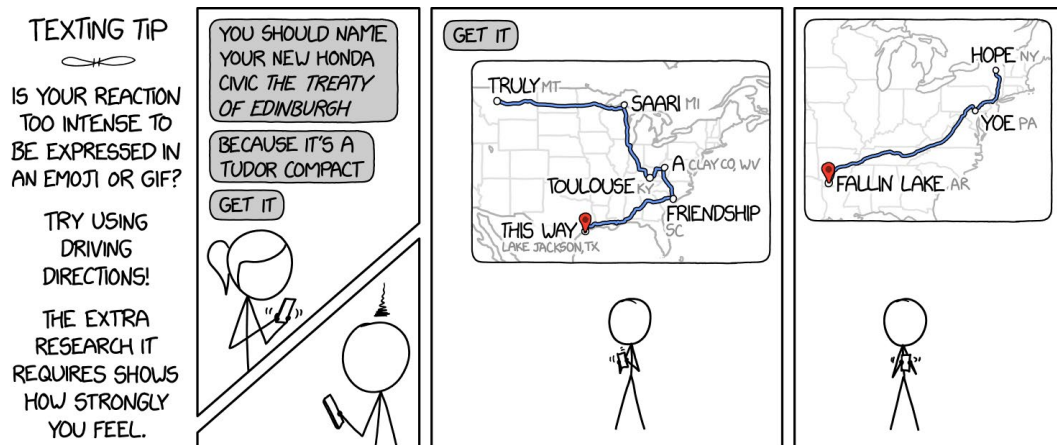
The AStA has various departments that are always happy to welcome committed students, including the Department for Diversity & Queer, the Department for Environment, the Department for Paramedics, the Department for Events, or the Department for Press and Public Relations.

The basis of the student representation is of course the students themselves. Every year there is a university election, in which you can exercise your democratic right to a say at the university and, in addition to two representatives for the TUM senate, you can also elect

student representatives for the faculty council and, every three years, your own dean. Each student body then indirectly sends elected representatives to the student body council, which is the highest decision-making body of the student representation at the university level and can decisively influence university policy.

Your student representative is always grateful for feedback and new input.

The university changes with, through and for its students.



<https://xkcd.com/2260>

# Beyond Studying

Of course, studying does not only consist of learning, homework and exams. There is a great range of activities you can participate in, partly organised by the student council, part-

ly by other organisations. Here you will find an overview of what you can do with your free time alongside your studies.



# Events

**DISCLAIMER: All events listed below have been suspended until further notice.**

**esp** - <https://esp.fsmb.de>

The largest freshmen's party in Southern Germany is organized by the Mechanical Engineering Student Council and takes place at the beginning of the winter semester on the Garching campus in the Department of Mechanical Engineering. In order for the several thousand guests and helpers to get home from there, there are special underground trains and free shuttle buses at night. But be careful: Tickets are usually sold out shortly after the start of the sales and you should also be there much earlier at the box office to have a chance.



## MeUp

At the beginning of the winter semester there is also a party at the TUM campus - the "Meine erste Uniparty" (My first university party) - in short MeUp. Another opportunity to celebrate the start of the semester, meet new people and have a lot of fun.

**Unity** - <https://www.unity.bayern>

And what about the summer semester? Of course there will be a party as well. Together with the Chemistry Student Council, your MPI Student Council organizes the "Unity" in the MI building on the Garching campus. After you have celebrated on the four floors or just chill

out on the shisha terrace, special subways and shuttle buses will bring you home.



**Winterball** - <https://ball.mpi.fs.tum.de>

The annual Winter Ball in the MI building of the Garching Campus offers a completely different experience. Whether Foxtrot, Tango or Cha-Cha-Cha - in the festive ambience of the most beautiful time of the year, all lovers of dancing get their money's worth. For refreshment, there are free appetizers so that you can quickly resume dancing. In order to remember the already unforgettable evening even better, there is also a photo booth and photographers to capture the entire ball. You would like to go, but unfortunately you have never really learned to dance or your skills are a little rusty? No problem, as a preparation we offer a four-day dance course.



## GLÜHNIX

Also at Christmas time the GLÜHNIX takes place on the forecourt of the mechanical engineering. Three days of the last week of lectures before the Christmas holidays are sweetened by mulled wine, tarte flambée, crêpes and much more from 11 am to 9 pm.

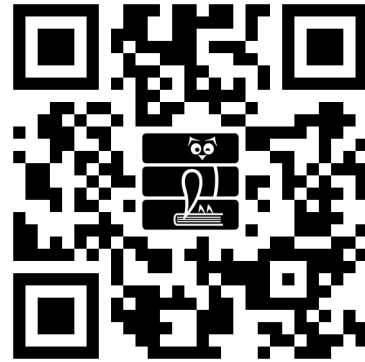
**StuStaCulum** - <https://www.stustaculum.de>

Although the StuStaCulum is not organized by student councils of the TUM or the AStA, Germany's largest music and culture festival organized by students is worth mentioning. For access to the numerous tents on the grounds of the student city, you will need a wristband, which can be purchased directly on site and is valid for the entire period of four days. The registration of helpers is also done separately at <https://helfer.stustaculum.de>.



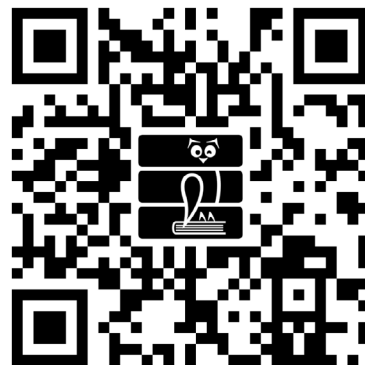
**TUNIX** - <https://www.tunix.de>

In contrast to the StuStaCulum, admission to the festivals organized by TUM students is free. For five days the TUNIX Open Air at Königsplatz near the TUM main campus offers a variety of live musical performances, which can be followed from the beer garden or the shisha lounge with freshly tapped beer, grilled meat and much more. Are you an individual artist or part of a group and do music, movies, theatre, dance, cabaret, poetry slam or similar? At <https://kuenstler.triple-live-summer.de> you can apply for a performance at TUNIX or GARNIX and use these big events as a springboard.



**GARNIX** - <https://www.garnix-festival.de>

Similar to TUNIX, there is also a five-day open-air festival on the Garching campus in summer, the GARNIX. In addition to the attractions of TUNIX, it also offers an open air screening of the TU film. For the usual entrance fee of 3 Euro you can enjoy a film on your blankets on the meadow between the MI building and the Mechanical Engineering Department.



## Help

All these great events with student-friendly prices would not be possible without the many helpers who make the setup and dismantling possible, stand behind the bar, sell food or contribute otherwise to the success. So if you have always wanted to know what goes on behind the scenes of such a big event, just have a look at <https://helfen.fs.tum.de>.



Of course your help will be rewarded accordingly. Besides free food and drinks during your shift, you will usually receive vouchers and a t-shirt of the event. In addition there is a helper party at many events. So all helpers come together after the event is done and celebrate - again with free food and drinks.

## Games Night

When?

Outside of Corona every Monday,  
from 18:00 in the MI Magistrale.

You are invited to a cosy evening with guaranteed fun, at Germany's biggest regular games evening! Come by and get to know your fellow students - beginners are very welcome!

Our stock of board and community games is large and there is something for everyone. You are also welcome to bring your own games. Safe storage between Games Nights is possible.

In the evening we place two collective orders with the delivery service (18:30 and 19:30). We have drinks on site at 1 Euro each.

**Pen and Paper Evening - <https://fsmipi.de/pnp>**

When?

Outside of Corona every first Tuesday of the month, at 18:00 in front of the student council

You often don't understand the decisions of the heroes in books or movies? Or you are fascinated by wondrous fantasy worlds or fantastic SciFi?

Then drop by the Pen and Paper evening of the student council. Our game leaders always prepare many role-playing systems. Whether alone or with friends: You can easily join in. We play every first Tuesday of the month from 18:00. You can find more detailed information on our website at <https://mpi.fs.tum.de/en/for-students/events/pen-and-paper-evening>.



Food and drinks can be purchased at a reasonable price. We provide Dice and other game material, or you can bring your own PnP stuff.

What is Pen and Paper?

The idea is to dive into a fictional world with a group of players. Each of you plays a hero. You say where you want to go, you speak as your hero to other people in the game world, or roll the dice and see how successful you are in convincing the other player of your cause. The game master tells you about the world, plays your opponents and reacts to your decisions.

The worlds range from classic fantasy and adventure to our time and SciFi universes. Your tasks also differ from one game master to another. Sometimes you have to storm a fortress, another time you have to solve a crime. Or you just do what you want and watch your game master inventing one village after the other, while he tries to guide you back on the track of the prepared adventure...

# University Sports Center Munich

Due to Corona it is not possible to provide clear information about which sports courses will take place and which have to be cancelled. Current regulations can be found on <https://www.zhs-muenchen.de>.

As a student you spend a large part of the day sitting, whether in lectures, tutorials, doing homework or in the canteen. Since exercise puts you in a good mood and has a positive effect on the brain, we would like to introduce you to the largest university sports facility, the Zentraler Hochschulsport München (ZHS). The ZHS is also a great opportunity to meet new fellow students with similar interests.

The catalogue on <https://bit.ly/2K7uXQh> lists all the courses offered by the ZHS. The Central University Sports offer is huge and includes sports from the areas of ball sports, mountain and climbing sports, fitness and health sports, martial arts, dance, trend and leisure sports, gymnastics and athletics, water sports and winter sports.

There are courses at the following levels:

- **Course A:** for beginners who want to learn a sport.
- **Course F:** requires basic knowledge of the respective sport, on which to build.
- **Course L:** special training forms and basis for participation in student competitions.
- **Free courses:** Here, only a hall, equipment or similar is provided for the sport without a supervisor.

If you have found one or more courses you want to participate in, you have to get the required

semester tags and book the desired courses. You can also do this on the course overview. The required tags are listed in the description of the courses you want to attend. The rule is that you have to buy each different tag only once. This means that one H-tag is sufficient for example to take part in a football, table tennis and badminton course.

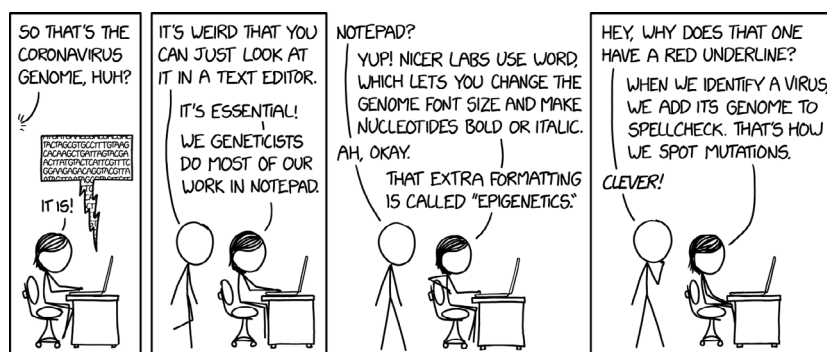
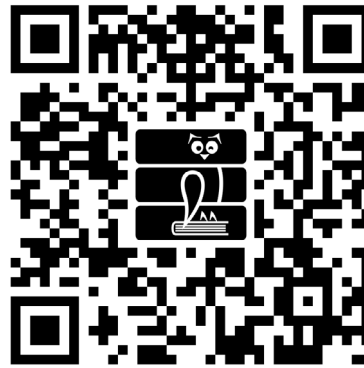
There are 4 different semester tokens:

- The standard tag: **Tag H** (7,50€)
- Use of the gym for fitness and rehabilitation: **Tag H+F** (Tag F costs 30€)
- Use of the climbing facilities: **Tag H+K** (Tag K costs 30€)
- For the events in the swimming hall (courses and free swimming): **Tag S** (15€)

The respective semester tags can cost different amounts depending on your employment status, but as a student of TUM you always pay the lowest price. Each tag is valid for one semester. All courses and tokens are booked in the course overview and paid by direct debit. You will receive a booking confirmation after each booking of a course, which you may have to show to the corresponding course instructor of your course. **Please note:** Some courses are often fully booked shortly after the opening of the registration. It is therefore worth keeping an eye on the registration date to register as early as possible. You can find the date on <https://www.zhs-muenchen.de/en/zhs/home>.

In order to be allowed to participate in your courses, you also need a ZHS ID card. The purchased tags will be stuck on the ZHS ID. In or-

der to get your ID card you have to go to the ZHS office (<https://www.zhs-muenchen.de/en/zhs/zhs-card-tickets>) or to another issuing office with a **passport photo**, **StudentCard** and the **booking confirmation** of the tags you want to have. Each semester you buy a tag, it will be glued to your ZHS ID again. You have to show your ZHS ID to the gatekeeper every time you enter the TUM campus in the Olympic Park.



<https://xkcd.com/2298>

## Initiatives

Student life is filled with all kinds of events beyond lectures — particularly at TUM. We have a variety of student-run groups that use their free time by acting, hacking, and networking. Whether you're simply interested in doing volunteer work as part of the student council or trying to gather practical experience, we're convinced you'll find something here. And, speaking from experience: Once you find the group that fits you, it'll be impossible to imagine studies without it. We'll introduce some such student initiatives below. You can find a larger list on the university-wide student council website. (<https://www.sv.tum.de/engagier-dich/hochschulgruppen>, no english version currently available)



**Give them a try and convince yourself that there's life beyond the lecture hall!**

### 180 Degrees Consulting Munich

180 Degrees Consulting Munich is part of the world's largest student consultancy. We offer you the opportunity to make an impact by solving strategic challenges for socially conscious organizations, receive training from professional consultants, and gain hands-on consulting experience working with non-profit and social enterprises.



### AES Munich

We shape cross-cultural relations between students from Asia and Europe. Our activities facilitate intercultural knowledge, personal exchange among students, and access to career opportunities at corporate partners. All local, international, and exchange students are welcome.

Visit us: [www.aesmuc.de](http://www.aesmuc.de)



Asian-European Society Munich

### AcTUM

AcTUM is a drama group at the Garching campus. We meet every week during the semester to do improv, acting exercises and sketches together. Meetings are alternatingly online and offline. English-speaking formats can be organised on demand. Come and join us!

info@ac-tum.de, [www.ac-tum.de](http://www.ac-tum.de)



### academy consult

We pursue the goal of promoting you alongside your university education by giving you responsibility in internal teams and on real consulting projects with well-known companies. Students from all fields of study come together to apply their theoretical knowledge in practice and give new impulses to companies. Find new friends and have the time of your life!





### Campus Chor Garching

No audition - just come! Rehearsals every Thursday 18:10 - 19:00, start already on October 1st at Laudatekirche, Martin-Luther-Platz 1, Garching Please check for possible changes here: [www.ccg.tum.de/index.php/TERMINE](http://www.ccg.tum.de/index.php/TERMINE)

Songs >> REPERTOIRE.

Singing unites people!



### CDTM

The CDTM is a joint institution of LMU and TUM offering the add-on study program „Technology Management“ which can be completed next to your main studies. Join the CDTM to work on real-world problems in interdisciplinary and international student teams and become a responsible innovator of tomorrow.



### DCI

We, the DCI, are a non-profit organization that brings Chinese and Germans together. Knowledge and understanding of each other are the basis for exchange, friendship and cooperation. Therefore, we organize events with cultural and economic relevance and organize regular tables where members can network.

<http://www.dci-initiativen.org>  
info@dci-initiativen.org



### Debattierclub München

Every week (Mon/Wed, 7 p.m.), students from various courses meet at the Debating Club Munich to exchange verbal blows. Our English and German debates are in the tradition of the British Parliament, the focus being on clarity and stringency of argument.



### Fusian Dance Crew

Hip Hop Dance Crew with ambitions. During our rehearsals in Studentenstadt we hone our dance skills and prepare ourselves for projects and performances. Every semester, the crew (approx. 25 dancers) accepts the most committed applicants. We are looking forward to you ;)

Ig: fusiandance | Fb: FusianDanceCrew



### IAESTE

IAESTE provides internships abroad in technical and natural sciences. With more than 80 member countries and affiliation to the DAAD, students from Munich get a paid internship, accommodation and support from the local committee on site.

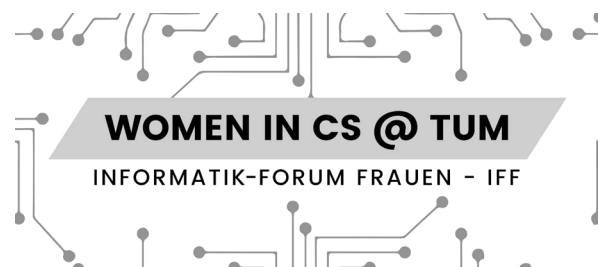
<https://iaeste-muenchen.de>  
studenten@iaeste-muenchen.de



### IFF - Informatik-Forum Frauen

Women in CS @ TUM ([www.in.tum.de/iff](http://www.in.tum.de/iff))

We organize weekly events, covering a board range of topics to help you integrate and ease your studies. Additionally, we organize big events at the beginning of each semester, where you can meet and listen to inspiring role models.



### Munich eSports

Munich eSports e.V. is a club that organizes various activities related to video games. We support esports at TUM and assemble teams for the German university league. We also organize gaming evenings, viewing parties, tournaments and much more. Visit [munich-esports.de](http://munich-esports.de) for more information!





### Philosophia Munich

We are a student-run society that discusses core philosophical topics: the mind, intelligence, morality, the law - you name it, we discuss it. We are a very welcoming group. You do not need any background knowledge to join, all you need is curiosity. Master your mind, not just your classes. Join us at [philosophiamunich.org](https://philosophiamunich.org)

# PHILOSOPHIA MUNICH

### START Munich

START Munich brings together a new generation of entrepreneurs and offers direct access to the startup world. Since its foundation in 2003, over 250 member have been active in the club and have founded successful startups such as Freeletics, Unu and Trade Republic.

<https://www.startmunich.de>



## START MUNICH

### Students For Future

StuFF is an environmental group which is driven by students from universities in Munich. As part of the global climate justice movement we support FFF, the Paris Agreement and the 1.5°C goal. We strive to educate students, organise direct actions and demand university administrations to act.



### TUM.ai

- TUM.ai is a Student Initiative focusing on Artificial Intelligence
- Hands-on experience from smaller projects with companies
- Mentoring, Workshops, Meetups and Hackathons

For further information visit [tum-ai.com](https://tum-ai.com)



### TUM Alumni & Career

- Career Counseling – in person, the via phone or per email
- Seminars and webinars supporting your career start and development
- Career Days with application photo shoot
- Online Application Document Check
- TUM Mentoring: [www.mentoring.tum.de](http://www.mentoring.tum.de)
- Free TUM Career Guide and newsletter
- Job/Internship: [www.tum.de/jobboerse](http://www.tum.de/jobboerse)

[www.together.tum.de/career](http://www.together.tum.de/career)



### TUM Speakers Series

TUM Speakers Series – Leaders and Shapers is the forum for debates on business, politics and society at TUM. Over the last years, we welcomed personalities such as Bill Gates, Eric Schmidt and Tony Blair to speak and discuss with TUM students. We are always looking for motivated new team members to join us. Find out more on [speakersseries.de](http://speakersseries.de) and on social media.



### TUM Campus App

Since 2013 a team of TUM students is working on Germany's most popular university app. The TUM "Campus App" conveys students all the essential TUM info, while serving as a scientific platform for innovative ideas. You always wanted to design UX or unleash your own neural algorithm on 20 000+ users? Join our team and let's work together on TUM's mobile future.

[www.tum.app](http://www.tum.app) - [app@tum.de](mailto:app@tum.de)



### TUMi

Would you like to help international students settle in at TUM and in Munich? Interested in playing a part in the planning and implementation of over 350 events each year, making international contacts and speaking foreign languages? Then come to TUMi and our events!



## WARR

At WARR, everything revolves around the topic of space travel. Our projects range from cryogenic rockets, nanosatellites and ISS-experiments to prototypes of space elevators and mars rovers. We have over 150 active student members, are completely self-organized and already looking forward to your engagement!

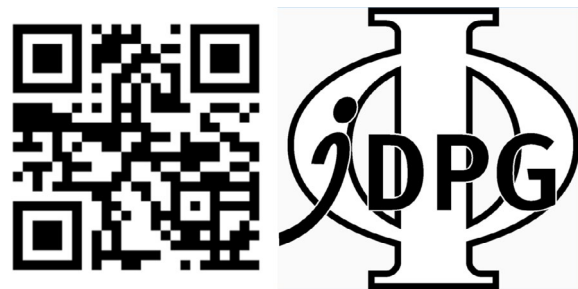
[warr.de](http://warr.de) | [info@warr.de](mailto:info@warr.de)



## jDPG

Welcome to the Young German Physical Society. Do you want to meet other physics enthusiasts from Munich, Germany and all over the world? Get together with us at our next monthly gathering or one of the other more than 200 events every year.

More information: [muenchen.jdpg.de](http://muenchen.jdpg.de)



## Phoenix Robotics

Phoenix Robotics has been building fully autonomous models for 10 years, currently cars and drones. While the flight team works on various interesting projects "freestyle", the drive team takes the regulations of the annual CaroloCup at TU Braunschweig as a framework for development, in which it has participated pretty successfully so far. Find out more at [tum-phoenix.de](http://tum-phoenix.de)



## TUfast

Studying can be more than plain lectures and seminars! Each year, TUfast develops an autonomous racecar to compete at international Formula Student competitions against other teams. Interested? We'll host multiple info events in October, follow @tufastracingteam to stay updated!



# Studying Abroad

Spending one or two semesters abroad during the studies is an absolute must for many. For most, this is less about the content, but rather an opportunity to make a unique experience. Getting acquainted with foreign country, an unfamiliar culture, and people from around the world is a great way to expand your personal horizons. However, this kind of plan requires preparation: At TUM, there are many institutions, which will support you in finding your way abroad. Keep reading to find out more.

The **Erasmus+ program** is an initiative run by the European Commission that aims to improve mobility and educational exchange within Europe. The faculties Mathematics, Physics and Informatics have contracts with various partner universities scattered around Europe—as a result, there’s enough choice for everyone: between Portugal, Finland, Turkey, Iceland and beyond. You can find a list of partner universities on your respective faculty’s website. The application and organization is usually relatively simple. You’ll be supported with regards to matters like finding a place to stay and dealing with bureaucracy. There is also financial support from the EU’s end: A stipend between 200€ and 500€.

**TUMexchange** facilitates exchange semesters beyond Europe. Among others, there are partner universities in the US, China, India, and South Africa. This program, too, provides a lot of support across the board: for example, your tuition is paid entirely by TUM.

If neither of those two large programs seem right for you, there are some other opportunities to go abroad. For example, you can earn a **double (masters) degree**, receiving one from TUM and the other from a different university

(for example, KTH Stockholm). Beyond that, the faculties offer some individual programs independent of Erasmus+ and TUMexchange. You’ll have two opportunities to participate in any of these programs; once during your undergraduate and once during your graduate studies. But maybe you don’t want to study abroad: You can also get support (or even financial support through Erasmus+) in participating in internships—whether as a self-contained activity or attached to a semester abroad. Time abroad can also be a great opportunity to work on your bachelor’s or master’s thesis.

When applying to these programs, your grades are of lower importance than you might expect. Particularly in Erasmus+, but also for TUMexchange, even students with average GPAs have a good chance of being accepted. The largest factors are your personal motivation, a well-thought-out study curriculum, and the demand and availability of space in the program. Although it is usually not required to apply, a language course can be very helpful: not only will it look good on your application, but your stay abroad will serve as a great opportunity to increase your skills. You should consider that a semester abroad makes more sense in the later semesters (eg. fifth or sixth for undergraduates). The contact persons will often justifiably suggest studying basics at your “home” university and using your time abroad to expand your subject-matter knowledge in specific subjects. Nevertheless, you will need to plan your trip well over a year ahead.

If you’re interested, please consult the faculty websites or contact your faculty’s international coordinator:

Mathematics: <https://www.ma.tum.de/en/international-relations/paths-abroad.html>



Informatics: <https://www.in.tum.de/internationales/studium-im-ausland>



Physics: <https://www.ph.tum.de/academics/int/out/abroad>



# der tu film

Dear first-semester students: Hello and welcome to TUM! Soon we're approaching autumn. Munich turns cold and rainy: perfect weather for going to the cinema. But, as many students can tell you, these aren't exactly wallet-friendly options: Watching the latest blockbusters from home will be a better choice for many. The tu film team offers an alternative: They organize various films' screenings on Tuesdays in Arcisstraße and Thursdays in Garching. At 8 PM and for a ticket price of 3€ (5€ at double features), you'll be able to see anything between the current blockbusters and cult favourites.

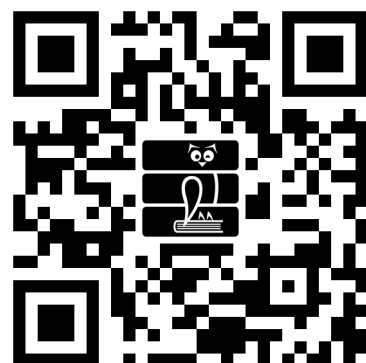
tu film regularly transforms both the time-honoured auditorium 1200 at the Arcisstraße campus and the MW 1801 auditorium in the Faculty of Mechanical Engineering in Garching into a cinema hall with state-of-the-art projection and sound technology (naturally, as befits a technical university). And of course they'll always have a cold beer and snacks ready for you. You're encouraged to bring your own food—be it pizza or wine, everything except pistachios and bulky items like beer crates is allowed. But the best thing about the performances is always the incomparable atmosphere. Cheers, comments, costumes, appreciative whistles,

loud laughter, singing along to well-known songs (like the German cult favourite "Superperforator" commercial) - there is hardly any other cinema where the audience experiences and celebrates the films as much as in tu film.

Unfortunately, we are also affected by Corona and therefore cannot reopen our doors at the start of the semester as usual. A visit to tu film is nothing without you the viewers. That is why we have decided not to play with the current corona restrictions. However, we hope to welcome you soon again at tu film.

You can find more information at:

<https://www.tu-film.de>





# Munich

If you need a break from your studies, we recommend sightseeing! Munich offers you a variety of attractions and sights. In order to make your start easier, we would like to present you some of our highlights from Munich.

You can look forward to a selection of sights and some particularly beautiful places in Munich.

## Places of interest

The **LMU main building** on Ludwigstraße was built between 1835 and 1840 by the architect Friedrich von Gärtner. The forecourt with the fountain is named after the siblings Hans and Sophie Scholl. Opposite the square is the Professor-Huber-Platz, named after Kurt Huber, who, along with the Scholl siblings, was also a member of the White Rose, a resistance group against the dictatorship of the National Socialism.

The **Frauenkirche** is a cathedral from the 15th century and probably the most famous landmark of Munich. On the floor in the entrance area below the choir, the stone pavement shows the imprint of a human foot carved in stone, which also has the imprint of a spur on its heel. There are numerous legends and stories about this footprint.

The parish church **Sankt Peter** is the oldest mentioned parish church of Munich, it was built in the 13th century, about 100 years after the foundation of Munich (first mention 1225/1226).

The **Bavaria** is the female symbolic figure and worldly patron of Bavaria (in contrast to Maria as spiritual patroness).

Today, the name stands, not only, but above all, for the 18.52-meter-high and approximately 87.36-ton bronze statue on the Theresienwiese, the place where the world-famous Munich Oktoberfest is held every year.

The **Alte Hof** is a ducal city castle from the 12th century and was the residence of the Dukes of Upper Bavaria, later of Bavaria as a whole. Legend has it that a monkey once kidnapped little Ludwig as a baby.

The **Residenz** is a complex of buildings in the old town and the largest inner-city castle in Germany. As Munich's city palace it was the residence of the Bavarian dukes, electors and kings and thus a political and cultural center for centuries.

The **Königsplatz** is a historical square on Breiten Straße, which was developed during the National Socialist era and used for ideological purposes.

The **Feldherrnhalle** is a loggia on Odeonsplatz, which was dedicated to the Bavarian Army and represents the transition of the boulevards into the old town/pedestrian zone. It was the scene of the failed Hitler-Ludendorff coup in 1923 and became an important place of Nazi propaganda after the seizure of power.

The **Siegestor** is a triumphal arch near the LMU main building. Just like the Feldherrnhalle, with which it encloses Ludwigstraße, the Siegestor is dedicated to the Bavarian Army.

The **Maximilianeum** is a magnificent building that King Max II. in the middle of the 19th century. It accommodates a foundation for particularly talented students and is the seat of the Bavarian Parliament.

The **Schloss Nymphenburg** is one of the great royal castles and surpasses even Versailles Castle in its span. For centuries it was the summer residence of the Wittelsbacher. One wing still serves today as the residence of Franz Duke of Bavaria. Particularly worth seeing is the extensive Nymphenburg Palace Park, which is modelled on the gardens of Vaux-le-Vicomte Palace and Versailles Palace.

The **Neue Rathaus** at Marienplatz was built between 1867 and 1874 due to a lack of space in the Old Town Hall. It is the seat of the mayor, the city council and the city administration. Especially interesting for tourists is the carillon, which is played every day at 11 and 12 o'clock and from March to October at 17 o'clock.

The **Viktualienmarkt** is a permanent market for food (lat. Viktualien) in the old town of Munich, which celebrated its 200th anniversary in 2007. It takes place daily except Sundays and holidays and consists mostly of fixed stands. Since the 1950s, the Viktualienmarkt has developed into a gourmet market. Today, it is both a market for Munich residents and a tourist attraction.

The **Bayerische Staatskanzlei** borders on the Hofgarten from the west and is home to the Bavarian Minister President, among others, as a supreme state authority.

The **BMW Turm** is the landmark of Bayerische Motorenwerke and also the Group's main administrative building. The building near the Olympic Centre is modelled on a four-cylinder engine.

The **Allianz Arena** is the home stadium of the FC Bayern Munich football club and was the venue for the 2006 Football World Cup. The outer facade can be illuminated from the inside by LEDs in a wide range of colors.

*Caution: Due to the Corona Pandemic, many museums and venues have different programs or opening hours. Please check the respective websites or other sources to find out how the current regulations look like.*

## Museums

The **Deutsche Museum** in Munich is the largest science and technology museum in the world in terms of exhibition space. Some of the numerous exhibitions are currently being updated and will reopen in 2021.

The **Staatliche Museum Ägyptischer Kunst** displays exhibits from 5,000 years of Egyptian history and some exhibits from neighbouring cultures. Sunday admission: 1€



The **Museum Mensch und Natur** is located in the north wing of the impressive Nymphenburg Palace. Under the motto Natural history as an experience, the museum offers a lively transfer of knowledge in the fields of the bio- and geosciences as well as life sciences. Various interactive exhibits also provide exciting insights into the history of our earth and life. Sunday admission: 1€

The **Glyptothek** on Königsplatz is the only museum in the world dedicated solely to antique sculptures. Since October 2018, the Glyptothek is closed for an estimated two years due to renovation. Sunday admission: 1€ (per house)

The **Bayrische Nationalmuseum** shows exhibits from two millennia of European art and cultural history. These include paintings and sculptures as well as many handicrafts such as goldsmith's work, weapons and porcelain. Sunday admission: 1€

The **Pinakotheken** are among the most renowned art collections in the world. Today, the Alte Pinakothek shows holdings of the Bayerische Staatsgemäldesammlungen from the Middle Ages to the middle of the 18th century. The Neue Pinakothek with works of art from the 19th century, which is connected to the Alte Pinakothek in terms of contemporary history,

will probably be closed until 2025. The Pinakothek der Moderne, on the other hand, with its four museums of art, graphic art, architecture and design, mainly shows works from the 20th century. Sunday admission: 1€

The **NS-Dokumentationszentrum** is located at the historical site of the "Brown House", the former party headquarters of the NSDAP in Munich. In a test phase until April 2020, it offered free admission as a sign for democracy and against forgetting. The reason for this were election slogans for the European elections in 2019, which showed that the confrontation with history and especially the period of National Socialism is more important than ever. It offers a multi-storey permanent exhibition in German and English, changing special exhibitions, a library and a seminar area.

The municipal gallery in the **Lenbachhaus** is an art museum that originally focused on the art of painters active in Munich, especially those of the 18th and 19th centuries. In addition to the Munich School, since 2012 the Dresden Romanticism as well as the Berlin and Düsseldorf School have been shown. The Lenbachhaus owes its world fame to the unique collection of works by the group "Der Blaue Reiter" with numerous paintings by Alexei Jawlensky, Wassily Kandinsky, Franz Marc, Paul Klee and others.

## Venues

The **Messe München** in Munich Riem is one of the most important trade fairs worldwide. In addition to the world's largest trade fair in terms of exhibition space, the Bauma, the International Motor Show will also be held here from 2021.

The **Gasteig** is a cultural centre that includes several concert halls, the Munich City Library and the Munich Folk high school. The building on Rosenheimer Platz is the seat of the Munich Philharmonic Orchestra and is scheduled for general renovation from the end of 2021.

The **Olympiahalle** was built for the 1972 Summer Olympics and offers up to 15,500 seats. In addition to sporting events, concerts, exhibitions and other events are also held here.

In addition to the event hall, the **Backstage** offers a club and a beer garden. Apart from concerts, whose musical focus is on alternative music, there are also public viewings and parties.

The **Zenith** is a former railway hall, which is under monumental protection. Today it is used for

theatre, dance, concerts, parties, exhibitions, fairs and more.

The **Muffatwerk** is located in a former steam power station. Today an urban mix of live concerts, theater, art exhibitions, performance, multimedia and literature takes place here on 3,000 square meters. The hall and the Club Ampere are mainly used as a concert location, but also for club nights. When the weather is fine, the beer garden located near the Isar River attracts a large audience.

The **Cirkus Krone-Bau** is the headquarters for the travelling circus in winter and a location for numerous different productions in summer. From the end of December to the end of March you can watch the program of the (according to own information) worldwide biggest circus "Cirkus Krone". The rest of the year concerts, musicals or comedy events take place here.

The **Theatron** is an amphitheatre in the middle of the park landscape of the Olympic area. It is located directly at the lake, below the Olympic swimming hall. The round theatre offers space for 2000 guests and the concerts in summer are very popular - all events are free of charge and mostly take place in beautiful summer weather.

In the **Strom, Cord, Ampere**, and **Folks!** you will find smaller, more alternative and indie concerts, often with cheap or even free entrance.

The **Bayrische Staatsoper** is a renowned Munich opera house with various venues. These include the **Bavarian National Theater**, the **Prinzregententheater** and the **Cuvilliés-Theater**. In addition to operas, ballets and various other classical concerts are offered here. The Opera for All as a program point of the annual Munich Opera Festival is also worth mentioning.

The **Residenztheater**, right next to the Nationaltheater, is the main venue of the Bavarian State Theater and one of the most traditional and important spoken theaters in Germany.

In the municipal **Munich Volkstheater** both classical and modern plays are performed. From autumn 2021 the theater will move to the former Viehhof yard in the Isarvorstadt.

## Pubs and Bars

There is a multitude of different bars and pubs in Munich. Many of them can be found around the *Münchner Freiheit* underground station. We have listed the most important ones below.

Pub/Bar	Location	Price	Atmosphere	Comment
Tumult	Universität	€		alternative
Shamrock	Giselastraße	€€	Irish Pub	incl. Karaoke
Barschwein	Münchner Freiheit	€	small, many students	the first floor is sometimes a club
Schluckauf	Münchner Freiheit	€	small	cheap
Hopfendolde	Münchner Freiheit	€	chilled	Karaoke (Thu + Sun)
Bistro StuSta	Studentenstadt	€	relaxed, many Students	good food
Keg Bar	Giselastraße	€€	Irish Pub	Karaoke
Schwabinger 7	Münchner Freiheit	€€	rock-vibe	
Saulitos	Universität	€€		good drinks, interesting daily offers
Zur Gruam	Implerstraße	€€	very full	
Holy Home	Marienplatz	€€	Hipster	cheap beer
Fox	Universität	€€€	Hipster, 70s+80s music, cuddly	interesting people, friendly service, very full starting 9PM
Call Soul - Breaking	Münchner Freiheit	€€	cuddly	cool drinks
Distillers	Münchner Freiheit	€€	quiet	cool interior design
Unterfahrt	Max-Weber-Platz	€€€	Jazz	
Kennedys	Sendlinger Tor	€€	Irish Pub	good food, live music
Charlies	Kolumbusplatz	€€	Vietnamese	good food

## Restaurants

Restaurant	Location	Type	Price	Comment
Steinheil 16	Theresienstraße	German	€	big servings
Café Zeitgeist	Universität	Hipster, Bruch	€€	
Dabah	Münchner Freiheit	Indian	€€	
Farmers Steakhouse	Garching	Burger & Steaks	€€	3€ burger discount with StudentCard
Mister Pancake	Theresienstraße	Pancakes	€€	very full on weekends
L'Osteria	Giselastraße, Karlsplatz	Italian	€€	big pizzas
Shan	Thalkirchen	Indian	€€	good curry
Chopan	Maillingerstr.	Afghan	€€	
Lo studente	Universität	Italian	€	
Penqueño	Lehel	Mexica	€€€	many different cocktails
Ruff's Burger	Marienplatz, Münchner Freiheit	Burger	€€	
Druken Cow	Theresienstraße	Burger & Steak	€€€	many different cocktails
Hans im Glück	10+ Standorte	Burger & Salate	€€	have vegan and vegetarian burgers and many cocktails
Krua Thai	Hauptbahnhof	Thai	€	
Hamburgerei	Stiglmaierplatz, Prinzregentenpl., Münchner Freiheit	Burger	€€	creative Burgers

# Clubs

There are a number of clubs in Munich. From mainstream to underground everything is offered.

Club	Location	Music	Price	Comment
Willenlos	Ostbahnhof	Mixed Club-sounds & Chars	€	cheap beer
Neuraum	Hauptbahnhof	Mixed Club-sounds & Hard-style Floor	€€	big and modern
Rote Sonne	Stachus	Elektro	€€	we recommend earplugs
Backstage	Hirschgarten	Divers	€€	concerts in the beer garden
Pacha	Odeonsplatz	House & Elektro	€€€	2 floors
Blitz	Isator	Elektro	€€€	best lightshow
Bahnwärter Thiel	Poccistraße	Elektro	€€	personal recommendation
Lucky who	Odeonsplatz	Hip-Hop	€€	also bar & burgers
Milchbar	Sendlinger Tor	Mixed Club-sounds & Charts	€	
P1	Odeonsplatz	Mixed Club-sounds & Charts	€€	
New York Club	Hauptbahnhof	Happy, House	€€	Gay Club, very recommendable on Fridays
Cord	Karlsplatz, Sendlinger Tor	Indie	€	Wednesdays its „Indie-Disco“ and students only pay 3€ to enter
Harry Klein	Karlsplatz	Elektro, Techno	€€	gay on wednesdays

# Lexicon

In your studies you will repeatedly come across terms of which you might not know what they mean. In order to avoid this situation arising as

often as possible, we have compiled a collection of important terms and briefly explained them here.

## **Audit Committee („Prüfungsausschuss“)**

The Faculty's own Examination Committee makes all necessary decisions, unless these are assigned to the examiners in the APSO or become necessary during the examination process itself.

## **BaFöG**

See „Federal Training Assistance Act“

## **Basic and Orientation Examination (GOP)**

An examination scheduled during the first semesters to determine the suitability of candidates for a course of study at an early stage. A final failure to pass the GOP usually results in the final failure of the study program and ex-matriculation.

## **Bavarian University Law (BayHSchG, BHG)**

Forms the legal basis for the work of all state and state-recognized universities in Bavaria.

## **Bologna Process**

In the joint declaration of June 19 1999 in Bologna, 29 European countries decided to create an European Higher Education Area. The Bologna Process has three major objectives: The promotion of mobility, international competitiveness and employability.

## **Central exercise (ZÜ)**

A larger exercise in which the students are presented with task types or solutions.

## **Credits**

See ECTS

## **cum tempore (c.t.)**

Event does not start at the specified time, but a quarter of an hour later. (See also s.t.)

## **Dean**

Heads a faculty or department of a university.

## **Dies academicus (Academic Holiday)**

University holiday on the first Thursday in December.

## **Doctorate**

After successful completion of a master's degree, one can do a doctorate. After the doctorate one obtains the doctorate degree. The doctorate is a prerequisite for the habilitation.

## **European Credit Transfer System (ECTS)**

The ECTS credits represent an attempt to enable an uniform point system for the recogni-

tion and transfer of study achievements within Europe. The number of credits obtained for a course is proportional to the amount of work required, the following theoretically applies: 1 credit corresponds to approximately 30 hours of workload.

### **Fachschaft**

see „Student Council“

### **Faculty (department)**

Basic organisational unit of the university, which combines similar subjects into one unit. The faculties are responsible, among other things, for the implementation of courses, research and the training of young academics. Each faculty has its own subject examination regulations. (See also: School)

### **Faculty Council**

Responsible for all faculty matters, e.g. appointment of lecturers and preparation of examination regulations.

### **Federal Training Assistance Act (BAföG)**

Regulates financial support for students by the state.

### **Feedback@tum**

TUM wants to give all students the opportunity to actively participate in the improvement of our university. Ideas for improvement or complaints regarding all student matters at TUM can be submitted via an online form. <https://www.tum.de/en/about-tum/contact-directions/feedback>.



### **FPSO**

See „Subject examination and study regulations“

### **FSR**

See „Student Council’s Committee“

### **FVV**

See „Student Representative Assembly“

### **Garching Research Center (Garching Forschungszentrum)**

The cool campus where you will study for the coming year(s).

### **General examination and study regulations (APSO)**

Sets the legal framework in the study programme (minimum credit requirements, types of examinations, final thesis, etc.). Is extended by the FPSO for specific courses of study.

### **General Student Assembly (SVV)**

The General Student Assembly takes place once a semester. At the respective events in Garching, Freising and the city centre, your student representatives inform about developments in university politics and events and introduce themselves and their work. During the General Student Assembly, all courses must be cancelled.

### **General Student Council (AStA)**

Executive body of the student representation (SV) of the TUM, it is elected by the student councils of the departments and meets weekly.

### **Habilitation**

After the doctorate, one can habilitate. The habilitation is usually a prerequisite for becoming a professor at a university.

### **impulsiv**

Magazine of the student council MPI. Impulsiv is published two to three times per semester and is free of charge.

### **Infopoint**

On the ground floor of the MI building are the Infopoints for mathematics and informatics. The Infopoint is the first point of contact for all questions concerning your studies.

### **International Association for the Exchange of Students for Technical Experience (IAESTE)**

Independent international organisation for organizing internships in over 85 countries.

### **International Student Identity Card (ISIC)**

Can be issued at the Student Representation (AStA) office, cost: 15 Euro.

### **Large computer hall**

Computer room in the MI building. Between fingers five and seven on the ground floor. The login for the computers will be issued at the infopoint, possibly already during the math pre-courses. Beside the large computer hall there are other smaller computer rooms distributed throughout the MI building.

### **Lecture evaluation**

Towards the middle of the semester, the faculties conduct a survey on the quality of the course in all their lectures.

### **Leibniz Computing Centre (LRZ)**

Computation and networking center of the Munich universities. Located in and besides the two cubes next to the mathematics/informatics building.

### **LRZ identification**

A personal identifier for registration on various services of the university (e.g. TUMonline or Moodle). See the IT-Guide for more details.

### **Ludwig-Maximilians-University Munich (LMU)**

The other big university in Munich. Apart from that, Munich also has the Bundeswehr University and various other universities.

### **Magistrale in the MI building**

The large glass-roofed hall in the middle of the MI building is called Magistrale.

### **Matriculation number**

A personal identification number, which can also be found on the student card.

### **Mechanical Engineering („Maschinenwesen“, MW)**

The building at the northern subway entrance. The large lecture halls (which are currently being renovated) are often used for computer science lectures and exams.

### **Modules**

Courses of the bachelor's and master's programmes, clearly identified by the module ID. Modules are usually completed by an examination and credited with a certain number of ECTS. A distinction is made between compulsory modules and elective modules (see FPSO). You can find more information about your elective and compulsory modules on the page of your degree programme.

### **Moodle**

Central learning platform where many courses provide materials and information.

### **Munich Transport and Tariff Association (MVV) and Munich Transport Association (MVG)**

Take care of the local traffic in Munich.

### **President (P)**

Head of the TUM, who represents it externally. At the moment, this is the food chemist Prof. Thomas Hofmann. He replaced Prof. Wolfgang A. Herrmann on October 1, 2019.

### **Printing quotas (mathematics, computer science)**

Can be purchased in the script sales office of the MPI student council to print in the computer hall. At the beginning of the semester, each student receives 150 pages of printing quota, which can be freely used.



### **RBG (Computer Operations Group)**

Maintains and manages the computers and infrastructure in the mathematics/informatics building. The helpdesk is located in the small computer hall.

### **Re-registration („Rückmeldung“)**

During the semester, students must re-register with the university administration by paying the semester fee for the coming semester to confirm that they wish to continue their studies. Failure to re-register results in exmatriculation. It is therefore essential to remember this deadline! It will be announced in time by mail and on TUMonline.

### **School**

In the next 2 years all faculties will be transformed into schools. Mathematics and computer science will be combined with electrical engineering, the physics department with chemistry.

### **Script sales office**

The student council's script sales office sells scripts for lectures and printing quotas (see printing quota). You can find the opening hours under <https://fsmpt.de/script-sales>.



### **sine tempore (s.t.)**

Event starts at the given time, not a quarter of an hour later. (See also c.t.)

### **Standard period of study**

Theoretical duration of studies determined by the Ministry of Education, which is important for BAföG recipients, for example.

However, it is usually exceeded if you have to work alongside your studies, spend a semester abroad or if delays occur during your studies (e.g. due to failed exams).

### **Student advisory service**

Each study programme has a student advisory service that can advise you on questions and problems concerning the content of your study programme and professional fields. If you have problems, it is worthwhile to visit them in good time.

### **Student Card**

Student identification of the TUM in shape of a multifunctional chip card. It is also used for payment in the Mensa and StuCafes.

### **Student Council („Fachschaft“, FS)**

The total number of students in one or more departments. The Student Council Mathematics/Physics/Informatics (MPI) is made up of all students of the Departments of Mathematics, Physics and Informatics. The term is also often used to refer to the active student body or the rooms of the student body.

### **Student Council's Committee (FSR)**

The department's student representatives send their representatives to the FSR. The FSR is the highest decision-making body of the student representation of the TUM. The FSR elects a chair, speakers and representatives, who form the AStA.

### **Student Representation (SV)**

The Student Representation is the representation of interests of the students at TUM. The student representation is very large with 20 department student councils and meets only every three weeks. Therefore, the student council elects representatives and advisors who take over the operative business (AStA).

### **Student Representative Assembly (FVV)**

The highest decision-making body of a student council, which is convened at least

once a semester by the student council. Every student should be able participate, thus all courses must be cancelled during the FVV.

### **Subject examination and study regulations (FPSO)**

Regulates the prerequisites (e.g. compulsory modules or GOPs) and examination requirements for your course of study.

### **SVV**

see General Student Assembly

### **Teacher Examination Regulations (LPO)**

The Teacher Examination Regulations regulate the requirements and examinations for tutors throughout Bavaria.

### **the tu film**

Every Tuesday and Thursday a film is shown in lecture hall 1200 (Carl-von-Linde-Hörsaal) at

the TU main campus (Tuesday) or in the lecture hall MW1801 in Garching (Thursday) - the spectrum ranges from current affairs to cult and insider tips. A ticket only costs 3€!

### **TUMonline**

Website of the TUM for the organizational parts of your studies. Have a look at the chapter "IT-Guide"

### **University Elections**

The individual committees in accordance with the Bavarian Higher Education Act (see BHG) are elected in the summer semester at the university elections.

### **ZHS (Central University Sports)**

The ZHS offers numerous facilities and courses for students of all universities in Munich, Freising and Landshut.

## **Freshmens guide by Fachschaft MPI, Winter Semester 2021/2022, October 2021**

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