Information Event for students in the first semester of
the Bachelor in Management and Technology
(TUM-BWL)

TUM School of Management
Julia Grabinska
January, 10th, 2018
Agenda

- General information (courses, exams, etc.)
- Most important legal regulations
- International Experience & Communications Skills
- Further information & guidance
- Specialization in Technology
Agenda

General information (courses, exams, etc.)
- Most important legal regulations
- International Experience & Communications Skills
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You can find important information here:

- Course Schedules
- FAQs
- General Academic and Examination Regulations
- Program-Specific Academic and Examination Regulations
- Information sheets

https://www.wi.tum.de/programs/bachelor-in-mt/
Bachelor in Management & Technology: Your options

1. Study program
2. Alternatives

- 100% English (English Track)
  - Courses in English
  - Computer Engineering
  - Labeled "100% in English"

- Bilingual (German Track)
  - Mixed Track
  - German language skills needed
Courses in the second semester

"German" Track = Mixed Track

**Basics in Business**
- Production and Logistics
- Kostenrechnung

**Basics in Economics**
- Volkswirtschaftslehre II

**Basics in Mathematics / Natural Sciences**
- Statistics I

**Specialization in Technology**
- Chemistry/Mechanical Engineering/
  Informatics/Electrical and Information Technology/Renewable Ressources

**English Track**
- Production and Logistics
- Cost Accounting
- Economics II
- Statistics I
- Computer Engineering

*In consecutive courses, it is recommended to continue with the language from the previous course, e.g. Economics I + II*
To avoid an overlap of lectures and exams it’s recommended to chose the courses as in the course schedules distinct by the two tracks.

If you mix up modules of both tracks, we cannot guarantee that the course schedules won’t overlap!
You can decide whether you want to take a course in German (if available) or in English.

However, in **consecutive courses** it is recommended to **continue with the language from the previous course**, e.g. Economics I + II or Law I + II.

**Attention**: Once you have chosen an exam in English (e.g. Economics I), you aren’t allowed to substitute it with the German version (e.g. VWL I), and vice versa.
If you want to make sure that 100% of the courses will be taught in English, you should opt for Computer Engineering.

Other specializations in technology are mainly taught in German.
Agenda

- General information (courses, exams, etc.)
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General Academic and Examination Regulations

Only the officially promulgated German version is legally valid

GENERAL ACADEMIC AND EXAMINATION REGULATIONS
for Bachelor’s and Master’s Programs (APSO)
at the Technische Universität München
dated 16 March 2011

Clean version
as amended by the amending statutes of 29 October 2012

In accordance with Art. 13 (1) sentence 2 in conjunction with Art. 58 (1) sentence 1 and Art. 61 (2) sentence 1 of the Bayerisches Hochschulgesetz (BayHSchG) [Bavarian Higher Education Act] the Technische Universität München (TUM) issues the following regulations:

Introductory note on linguistic usage:
1. In accordance with Art. 3 (2) of the German Constitution, women and men have equal rights. Any terms relating to persons and functions mentioned in the following regulations are equally valid for women and men.
2. The terms notice board/bulletin board ("Aushang"; "schwarzes Brett") do not imply the use of a specific information medium. Information may be provided in paper copy or electronic form. Legally binding notices must be provided through media which are easily accessible to all addressees.
3. The term "form" ("Formular"; "Formblatt") does not imply the use of a specific medium. Forms may be provided in paper copy or on computer screens.
4. The term "Examination Office" ("Prüfungsamt") refers to the locally competent department of the TUM examination office.
5. Some of the terms used in these regulations are defined in detail in the glossary "Verwendung einheitlicher Begriffe und Bezeichnungen für Bachelor- und Masterstudienfächer" and are available on the internet in the "TUM Dienstleistungskompass" at http://portal.mytum.de/archiv/kompendium_rechtsangelegenheiten/bologna-prozess/folder-

https://www.wi.tum.de/programs/bachelor-in-mt/downloads/
General Academic and Examination Regulations

1. Examinations

   • A module is usually concluded with a **module exam**.

   • In addition to the exam, **further assessments (papers, mid-term etc.)** may be required during a course.

   • A module is passed when you have successfully passed the **module exam**.

   • Required modules and compulsory elective modules **have to be** passed.  
     *(Exception: Elective modules)*
General Academic and Examination Regulations

2. Resitting an exam

- If a module examination in a required or required elective module is failed, the module examination **must be repeated**.
- For every module examination at least **one opportunity to resit the exam** will be given.
- You **have to register** for the retake exam. The previous registration for the exam is not valid.
- The retake exam will take place either **before** the beginning or **at the end** of the lecture period of the following semester.
- An **improvement of the grade** by resitting the exam is **not permitted**.
- There is **no limitation** of retake exams. However, the student’s progress must be adhered.
  - **Exception**: Bachelor’s Thesis and any **attempt of deceit** (incl. plagiarism): **only one retake exam** will be granted.
  - In **serious cases or repeated attempts of deceit** the student can immediately be excluded from taking further examinations in his/her study program and thus will lead to **deregistration!!!**
  - Exams **not passed at TUM** may only be **retaken at TUM**.
General Academic and Examination Regulations

3. Student’s Progress

• In order to complete the degree program within the regular study period, students must earn 30 Credits per semester.

• Student’s progress will be monitored once a semester.

• Students will be informed when they did not earned enough credits.
3. Student’s Progress

- Students **must have earned** at least the following total number of credits by the end of the semester in question:
  - 3rd semester, min. **30 Credits**
  - 4th semester, min. **60 Credits**
  - 5th semester, min. **90 Credits**
  - 6th semester, min. **120 Credits**
  - 7th semester, min. **150 Credits**
  - 8th semester, min. **180 Credits**

**Attention:** If students do not earn the required number of credits by the end of the semester in question, they will be considered to have failed the modules and will be **deregistered** from the degree program.
Program-Specific Academic and Examination Regulations (TUM-BWL Bachelor)

https://www.wi.tum.de/programs/bachelor-in-mt/downloads/

Examination and Academic Regulations for the Bachelor's Program in Management & Technology at the Technical University of Munich

dated September 13, 2013
as amended by the Fourth Amendment Statute of June 1, 2017

In accordance with Art. 13 (1) sentence 2 in conjunction with Art. 58 (1) sentence 1 and Art. 61 (2) sentence 1 of the Bayerisches Hochschulgesetz (BayHSchG) [Bavarian Higher Education Act] the Technical University of Munich issues the following Examination and Academic Regulations (Fachprüfungs- und Studienordnung, FPSO):

Introductory note on linguistic usage

In accordance with Art. 3 (2) of the German Constitution, women and men have equal rights. All terms relating to persons and functions mentioned in the following regulations are equally valid for women and men.

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III. Examination Planning

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V. Examination Results

VI. Re-examination

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Note: The document includes additional sections and subsections that are not fully visible in the image provided.
Program-Specific Academic and Examination Regulations
(TUM-BWL Bachelor)

• By the end of the second semester, students must have passed at least three of the four following exams: Mathematics I, Management Science, Statistics I, Economics I.

<table>
<thead>
<tr>
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<th>Summer term</th>
</tr>
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<tr>
<td>Mathematics I (regular and retake exam)</td>
<td>Statistics I (regular and retake exam)</td>
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<tr>
<td>Management Science (regular exam)</td>
<td>Management Science (retake exam)</td>
</tr>
<tr>
<td>Economics I (regular exam)</td>
<td>Economics I (retake exam)</td>
</tr>
</tbody>
</table>

• Recognition of credits earned at another university is only possible during the first year of study.

• Please note: If you have more than 29 credits transferred during the course of your degree, you will automatically be moved into the next semester.
Other TUM / Faculty Internal Regulations

• Registration for exams always via TUMonline!
  (Please pay attention to special regulations)

• Registration period for exams at the TUM School of Management - WS 2017/18:

  November 20th, 2017 – January 15th, 2018

  Please note: registration period for courses of the specializations in Technology may vary – please inform you in advance!

• Please always make sure that your registration was successful! (E-mail!)

• If an exam is not passed, you should resit the exam at the next possible opportunity. If you need to resit an exam, you have to register for the retake exam via TUMonline again.

• A delayed registration is not possible!!!
Other TUM / Faculty Internal Regulations

Attention: The Student Council organizes an information event about exam preparation.

When? January 17\textsuperscript{th}, 2018, 6:30 pm
Where? Probably room 0602 (Theresianum)

Further information will follow! For more details please contact the Student Council: https://tum-som.com/.
Instructions for downloading the exam certificate

To log in, please click on the start page of TUMonline (https://campus.tum.de) on the “Login” button in the upper right corner.

The login page will open. Enter your username and your password here.

Your business card will open. Click on the “Transcripts” button in the “Studies” menu.

A window will open with your exam certificates. Choose the right semester and the right study program and you can print out your exam certificate by clicking on the “printer” button.
Agenda

- General information (courses, exams, etc.)
- Most important legal regulations
- International Experience & Communications Skills
- Further information & guidance
- Specialization in Technology
Module “International Experience & Communications Skills”

International Experience & Communication Skills

International Experience

Communication Skills

6 ECTS

3 ECTS

3 ECTS
Options for International Experience

- **Study Abroad**
  - e.g. Exchange Program, Freemover
  - min. 60 consecutive calendar days

- **Internship Abroad**
  - min. 60 consecutive calendar days

- **Summer/Winter School**
  - at least 3 ECTS

- **Other stays abroad**
  - e.g. Au-Pair, Work-and-Travel etc.
  - no language courses (→ Communication Skills!)
  - min. 60 consecutive days

Interested in a semester abroad? An additional info session about the requirements will be held! Please inform you here: https://www.wi.tum.de/student-life/going-abroad/
Options for International Experience

Attention: If you have gained any sort of international experience after receiving the higher education entrance qualification and not earlier than three years before the start of your studies, you can also apply for a recognition. Please submit all necessary documents and the recognition form to Ms. Dr. Simone van Riesen (international-experience@wi.tum.de) until the end of the second semester of your studies at the latest. For more information please refer to the information sheet on our website or contact Ms. Dr. van Riesen.
Options for International Experience

Attention: If you gained your higher education entrance qualification in a country other than Germany, Austria or Switzerland, the first semester of your studies in Management & Technology might be recognized as international experience. For more information please refer to the information sheet on our website or contact Ms. Dr. van Riesen (international-experience@wi.tum.de).
Options for „Communication Skills“

- **Business Plan Seminar**
- **Soft Skills Seminar**
  - e.g. Presentation Techniques Course, Conflict Management and Conduct of Negotiation Course
- **Language courses (at least 3 ECTS)**
  - e.g. language courses offered by TUM Language Center, language courses abroad
- **Other courses/projects**
  - e.g. Intercultural Communication (offered by TUM SOM), Project Work in the Students’ Union Executive Committee (AStA)
Details regarding International Experience & Communication Skills
General information (courses, exams, etc.)
Most important legal regulations
International Experience & Communications Skills
Further information & guidance
Specialization in Technology
Further information & guidance

Communication Skills

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TUM SOM Grade Management Office
Undergraduate Program
npv_bachelor@wi.tum.de

Communication Skills

Sandra Lütkeemeyer
TUM SOM Grade Management Office
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International Experience

Dr. Simone van Riesen
TUM Chair of Forest Economics
international-experience@wi.tum.de
Further information & guidance

Program Manager

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Specialization in Technology

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Specialization in Technology

Julia Berchtenbreiter & Lotta Opderbeck
Student Council TUM SOM
studibetreuung@tum-som.com
Agenda

- General information (courses, exams, etc.)
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Specialization in Technology

Attention: At the beginning of the summer semester an Informatics Pre-Course will be held. Further information will follow – please check regularly the event calender on our website: www.wi.tum.de.
Specialization in Technology

Renewable Resources

Program Coordinator Straubing:
Melanie Neumeier
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Specialization in Technology

Chemistry
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Mechanical Engineering
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Informatics
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Electrical and Information Technology
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Computer Engineering
Julia Berchtenbreiter
julia.berchtenbreiter@tum-som.com
General information on the specializations in technology

Technical University of Munich
TUM School of Management
Bachelor in Management & Technology
## General information

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<th>Basic knowledge in Engineering and Natural Science</th>
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<td>Extent</td>
<td>Minimum 42 ECTS</td>
</tr>
<tr>
<td>Start</td>
<td>2nd semester</td>
</tr>
<tr>
<td>Place</td>
<td>Downtown: Electrical and Information Technology</td>
</tr>
<tr>
<td></td>
<td>Garching: Chemistry, Informatics, Mechanical Engineering</td>
</tr>
<tr>
<td></td>
<td>Downtown and Garching: Computer Engineering</td>
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<td></td>
<td>Straubing: Renewable Resources</td>
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<tr>
<td>Fixing</td>
<td>Registration to the first exam</td>
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</tbody>
</table>
General information

You should opt for one of our specializations in technology in the 2\textsuperscript{nd} semester.

If you are \textbf{not sure} which specialization to choose, you can attend \textbf{different courses} from specializations of your interest to \textbf{have a look} at the content and form your own opinion.

\textbf{Attention:} By \textbf{registering for a mandatory exam} in one of our specializations in technology, you made a \textbf{binding decision} for that specialization. A later switch of specialization might be possible under certain circumstances. For more information please contact npv\_bachelor@wi.tum.de.

\textbf{Important:} “\textit{Computer Engineering}” is the only specialization taught \textbf{100\% in English}. If you choose one of the other specializations, the courses will be taught mainly in German.

If you choose “\textit{Renewable Ressources}”, you need to move to \textbf{Straubing}. You have the possibility to complete the entire Bachelor’s program there.
You can find the overview of mandatory/electives modules of each specialization either in the Program-specific academic and examination regulations or in your Curricula Support in TUMonline (see below).

https://www.wi.tum.de/programs/bachelor-in-mt/downloads/
General information

Curricula Support in TUMonline (e.g. Informatics):

<table>
<thead>
<tr>
<th>Node-Name</th>
<th>rec. sem.</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>[20161] Management and Technology</td>
<td>180</td>
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</tr>
<tr>
<td>Basics</td>
<td>90</td>
<td></td>
</tr>
<tr>
<td>Major in Engineering and Natural Science</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>Major in Engineering and Natural Science: Chemistry</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>Major in Engineering and Natural Science: Informatics</td>
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<td></td>
</tr>
<tr>
<td>Pflichtfächer Informatik</td>
<td></td>
<td></td>
</tr>
<tr>
<td>[VK] [1N6001] Introduction to Informatics 1</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>[VK] [1N6002] Fundamentals of Programming (Exercises &amp; Laboratory)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>[VK] [1N8024] Information Management for Digital Business Models</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>[VK] [1N0006] Introduction to Software Engineering</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>[VK] [1N0009] Basic Principles, Operating Systems and System Software</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>[VK] [1N0008] Fundamentals of Databases</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Wahlfächer Informatik</td>
<td></td>
<td></td>
</tr>
<tr>
<td>[VK] [1N0012] Bachelor Practical Course</td>
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<tr>
<td>[VK] [IN6009] Algorithms and Data Structures</td>
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<tr>
<td>[VK] [IN2119] User Modeling and Recommender Systems</td>
<td>5</td>
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<tr>
<td>[VK] [IN2103] Image Understanding I: Machine Vision Algorithms</td>
<td>3</td>
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<tr>
<td>[VK] [IN2111] 3D User Interfaces</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>[VK] [IN0003] Introduction to Informatics 2</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>[VK] [IN2205] IT Security</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>[VK] [IN2113] Programming Languages</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>[IN4851] Seminar Informationsmanagement</td>
<td>4</td>
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</tr>
<tr>
<td>[VK] [IN2233] Software Engineering in an Industrial Setting</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Major in Engineering and Natural Science: Electrical Engineering and Information Technology</td>
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<td></td>
</tr>
<tr>
<td>Major in Engineering and Natural Science: Mechanical Engineering</td>
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<td></td>
</tr>
<tr>
<td>Major in Engineering and Natural Science: Computer Engineering</td>
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</tr>
<tr>
<td>Major in Engineering and Natural Science: Renewable Resources</td>
<td>42</td>
<td></td>
</tr>
</tbody>
</table>

Please note: Pflichtfächer = Mandatory modules, Wahlfächer = Elective modules
Mechanical Engineering

https://www.youtube.com/watch?v=YHWk5SwQAq8
# Mechanical Engineering: modules overview according to ideally study plan

<table>
<thead>
<tr>
<th>Semester</th>
<th>Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2nd</td>
<td>Mathematics II</td>
<td>6</td>
</tr>
<tr>
<td>3rd</td>
<td>Technische Mechanik</td>
<td>6</td>
</tr>
<tr>
<td>3rd</td>
<td>Introduction into Computer Science (for non Informatics studies)</td>
<td>5</td>
</tr>
<tr>
<td>4th</td>
<td>Grundlagen der Entwicklung und Produktion</td>
<td>3</td>
</tr>
<tr>
<td>4th</td>
<td>Werkstoffe im Maschinenwesen</td>
<td>5</td>
</tr>
<tr>
<td>5th</td>
<td>Maschinenelemente – Grundlagen, Fertigung, Anwendung</td>
<td>7</td>
</tr>
<tr>
<td>6th</td>
<td>CAD und Maschinenzeichnen 1**</td>
<td>2</td>
</tr>
<tr>
<td>6th</td>
<td>CAD und Maschinenzeichnen 2**</td>
<td>3</td>
</tr>
</tbody>
</table>

**Minimum Elective Subject**: 5

* The relevant catalog of elective modules can be found in the Curricula Support in TUMonline (see above).

** Although the Program-Specific Academic and Examination Regulations indicate 5th and 6th semester for CAD und Maschinenzeichnen 1 & 2, we recommend to take the courses in the 3rd and 4th semester.
Electrical and Information Technology

https://www.youtube.com/watch?v=ggpLvX1INvl
# Electrical and Information Technology: modules overview according to ideally study plan

<table>
<thead>
<tr>
<th>2nd semester</th>
<th>3rd semester</th>
<th>4th semester</th>
<th>5th semester</th>
<th>6th semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics II</td>
<td>Principles of Electrotechnology</td>
<td>Grundlagen der Informationstechnik</td>
<td>Elektrotechnik</td>
<td>Analog Electronics</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5th semester</th>
<th>6th semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nachrichtentechnik I</td>
<td>Introduction into Computer Science (for non Informatics studies)</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6th semester</th>
<th>minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective Subject *</td>
<td>5</td>
</tr>
</tbody>
</table>

* The relevant catalog of elective modules can be found in the Curricula Support in TUMonline (see above).
Chemistry

https://www.youtube.com/watch?v=2KQi7L3ImBY
Chemistry: modules overview according to ideally study plan

- **2nd semester**
  - Allgemeine und anorganische Chemie

- **3rd semester**
  - Grundlagen der Physikalischen Chemie 1

- **4th semester**
  - Einführung in die Organische Chemie
  - Chemisches Praktikum für TUM-BWL

- **5th semester**
  - Biologie für Chemiker
  - Analytische Chemie

- **6th semester**
  - Chemiesoftware und Datenbanken für TUM-BWL
  - Technische Chemie
# Informatics: modules overview according to ideally study plan

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2nd</td>
<td>Information Management for Digital Business Models</td>
<td>6</td>
</tr>
<tr>
<td>3rd</td>
<td>Praktikum: Grundlagen der Programmierung</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Einführung in die Informatik</td>
<td>6</td>
</tr>
<tr>
<td>4th</td>
<td>Einführung in die Softwaretechnik</td>
<td>6</td>
</tr>
<tr>
<td>5th</td>
<td>Grundlagen Datenbanken</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Grundlagen Betriebssysteme und Systemsoftware</td>
<td>6</td>
</tr>
<tr>
<td>6th</td>
<td>Elective Subject *</td>
<td>minimum 6</td>
</tr>
</tbody>
</table>

* The relevant catalog of elective modules can be found in the Curricula Support in TUMonline (see above).
Computer Engineering

https://www.youtube.com/watch?v=cvpdDzWQe30&t=2s
Computer Engineering: modules overview according to ideally study plan

Elective Subject *

2nd - 6th semester

Elective: Introduction into Computer Science (for non Informatics studies) * 5
Elective: Information Management for Digital Business Models * 6
Elective: Mathematics II * 6
Elective: Bachelor Practical Course * 10
Elective: 3D User Interfaces * 6
Elective: Programming Languages * 5
Elective: Principles of Information Engineering 6
Elective: Principles of Electrotechnology * 6
Elective: Analog Electronics * 5
Elective: Control Theory (MSE) * 4

minimum 42

* The relevant catalog of elective modules can be found in the Curricula Support in TUMonline (see above).
Renewable Resources

https://www.youtube.com/watch?v=9CvVXJ7P0uU&t=1s
Renewable Resources: modules overview according to ideally study plan

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2nd</td>
<td>Einführung in die Informatik</td>
<td>6</td>
</tr>
<tr>
<td>3rd</td>
<td>Physik</td>
<td>6</td>
</tr>
<tr>
<td>4th</td>
<td>Allgemeine und anorganische Chemie</td>
<td>6</td>
</tr>
<tr>
<td>5th</td>
<td>Grundlagen der organischen Chemie</td>
<td>6</td>
</tr>
<tr>
<td>6th</td>
<td>Technische Thermodynamik</td>
<td>6</td>
</tr>
<tr>
<td>6th</td>
<td>Forst und Holz</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Elective Subject *</td>
<td>minimum 6</td>
</tr>
</tbody>
</table>

* The relevant catalog of elective modules can be found in the Curricula Support in TUMonline (see above).
Any questions left?

General information on the specializations in technology
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Please note: Questions concerning the content can be addressed to the chair in charge of the module. If you want to get in touch with students from higher semesters to exchange experiences, please contact the Student Council (https://tum-som.com/).