11.10.2023

FRESHMAN ORIENTATION AI

for the winter semester 2023/24

Brandenburgische
Technische Universität
Cottbus - Senftenberg

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AI on BTU Website

`https://www.b-tu.de/en/artificial-intelligence-ms`

Board of AI Students Website

`https://fsr-ai.de`

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Students of higher semesters

Please first ask your fellow students for help.
They most likely had the same questions as you.

Studyprogram Director

Prof. Cunningham (`artificial-intelligence-ms@b-tu.de`)

Board of AI Students

E-Mail (`fsr-ai@b-tu.de`) Room (VG 1C 0.09)
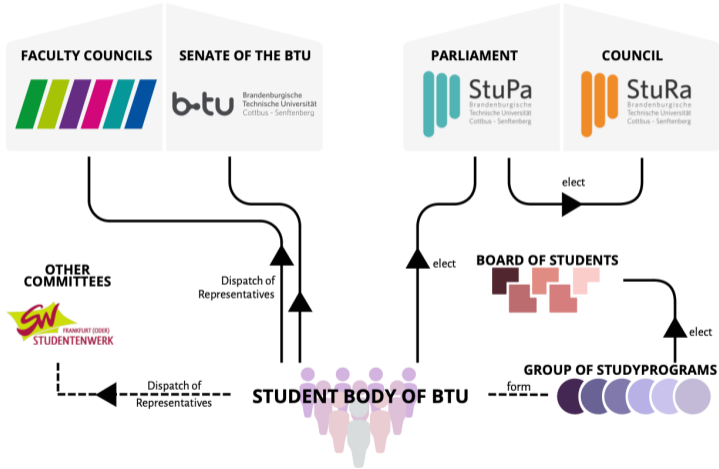
RECOMMENDED RESOURCES

Freshman Guide

`https://fsr-ai.de/freshman-guide`

FSR AI Website

`https://fsr-ai.de`

FSR IT Website

`https://fsr-it.de`

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The Focus of our Studyprogram

You can decide your own focus! You could for example focus in Data Science.
But what Data Science? Medical, Business, Mathmatical, …
You can build any complex system if you have the right fundamental methods.
It is your choice! So choose wisely!

Our Requirements and Focus

- Mathmatical Foundations
- Computer Science Foundations
- Artificial Intelligence Methods Foundations

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Self initiative

You need to choose your own moduls. Nobody will tell you what to do.
Ask Questions during lectures and get help from your fellow students.
Participate in Exercises and Seminars for deeper understanding

Concepts instead of Calculating, this can include

- Mathmatical Notations
- Practical Assignments
- Reading, Researching and Writing

ARTIFICIAL INTELLIGENCE STUDYPROGRAM

Study/Examination Regulation

This is the official document that describes your studyprogram and regulates which moduls and how many you can take. See https://fsr-it.de/regulations

!!! You need to choose you own studyplan !!!

Complex: Advanced Methods	6 - 56
Complex: Knowledge Acquisition, Representation and Processing	6 - 56
Complex: Learning and Reasoning	6 - 56
Seminar or Laboratories	6 - 12
General Studies	6
Internship	10
Master Thesis	30

How to choose your mentor?

Decide in which direction do you want to take you AI studies and decide on a mentor. Then take a look at the moduls your mentor holds. Then write an email to him and ask for a meeting where you can discuss things further.

All Professors: `https://www.b-tu.de/en/artificial-intelligence-ms/detail-information/chairs-involved-in-the-study-program`

Create your studyplan

After your talk with your mentor you have a finished study plan. This studyplan needs to be signed by your, your mentor and afterwards be sent to the examination board of AI. (You have until the end of the first semester)

Formular for creating your own studyplan: `https://fsr-it.de/mentor`

ARTIFICIAL INTELLIGENCE STUDYPROGRAM

Modul Types

MCA: Continous Assessment during the semester (Registration and Unregistration during the first three lecture weeks)

MAP: Exam at the end of the semester (Registration during the first three lecture weeks, Unregistration until one week of the corresponding examination period)

Teaching Events

There are different type of teaching events for on module:

- Lecture
- Exercise
- Seminar
- Laboratory

ARTIFICIAL INTELLIGENCE STUDYPROGRAM

Gather information about the moduels

- `https://fsr-it.de/ai-ms`
- `https://www.b-tu.de/en/artificial-intelligence-ms`
- `https://www.b-tu.de/elearning/btu/`

Create your timetable for the semester

- `https://fsr-it.de/studyplanner`

!!! Official Exam Registration via the online portal !!!

`https://www.b-tu.de/online-portal`

Resources and Communication for the modul via moodle
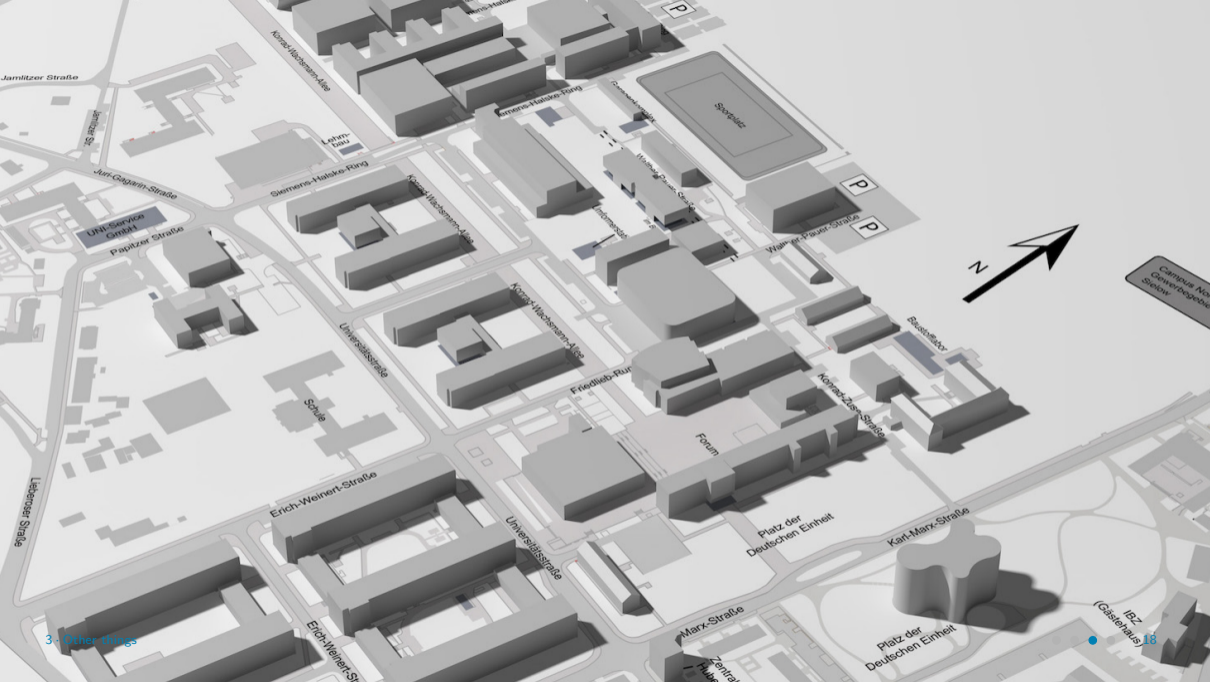
`https://www.b-tu.de/elearning/btu/`

BTU Account

- Email Communication with teaching staff
- Examination Registration
- Moodle
- Managing your studies (myBTU-Portal)

BTU Campus App

```
https://www.b-tu.de/multimediazentrum/dienstangebote/web-app/campusapp
```

Jamlitzer Straße

Konrad Wachsmann Allee

P

Siemens-Halske-Ring

Lehm-
bau

Jun-Gagarin-Straße

Uni-Service
GmbH
Papitzer Straße

Siemens-Halske-Ring

Konrad-Wachsmann-Allee

Sportplatz

Walther-Pauer-Straße

P

P

König-Wachsmann-Allee

Walther-Pauer-Straße

Universitätsstraße

Baustellentor

N

Campus Nord
Gewerbegebiet
Bülow

Schule

Friedlieb-Run...

Konrad-Zuse-Straße

Forum

Erich-Weinert-Straße

Universitätsstraße

Platz der
Deutschen Einheit

Karl-Marx-Straße

Liebknecht
Straße

Erich-Weinert-Str...

Marx-Straße

Zentral...

Platz der
Deutschen Einheit

IBZ
(Gästehaus 18

3. Bauer Straße

OTHER THINGS

Do you have enough mathematical knowledge? (Notations included)

- $\forall p \in \mathbb{P} : p$ is a prime
- $\forall n \in \mathbb{N} : \exists x \in \mathbb{N} : x|n$

Then it is recommended to take the modul **14015 - Introduction to Mathematical Methods in Artificial Intelligence** in the first semester.
`https://www.b-tu.de/modul/14015`

Try to learn german

- Duolingo (free)
- Babbel (costs money)
- BTU Language Centrum (currently overbooked)

Have fun with your AI studies at BTU!