

Linear Algebra

Bachelor Applied Artificial Intelligence (AAI)

Summer term 2022



Lecturer

Prof. Dr. André Herzwurm

Background

- ▶ mathematics, stochastics
- ▶ insurance industry

Contact information

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- ▶ office hour: by appointment

Course Details I

Prerequisites

Analysis I (recommended)

Dates

- ▶ lecture (4 hours per week)
 - ▶ Tuesday, 09:45-11:15, A3.14
 - ▶ Wednesday, 08:00-09:30, A3.13
- ▶ exercise (2 hours per week) → *start in 2nd week*
 - ▶ Tuesday, 11:45-13:15, A3.14 (group 2)
 - ▶ Tuesday, 13:45-15:15, A3.14 (group 1)

Course material

- ▶ <https://learning-campus.th-rosenheim.de/>
- ▶ course name: Linear Algebra (AAI-B2), SoSe22
- ▶ password: LA_AAI-B2_SoSe22

Course Details II

Examination

- ▶ written exam: 90 min.
- ▶ auxiliary tools: 1 sheet (DIN A4) both sides, handwritten calculator (non-programmable)

Literature

- ▶ S. Axler, *Linear Algebra Done Right*, Springer, 2015
- ▶ J. Liesen, V. Mehrmann, *Linear Algebra*, Springer, 2015
- ▶ G. Fischer, *Lineare Algebra*, Springer, 2014 (German)

Topics

vector spaces, linear maps, matrices, systems of linear equations, eigenvalues and eigenvectors, inner products