



IMPRS CoNI Bootcamp 2025
Module 5: Soft Skills Courses

Workshop

“Critical Reasoning and Logic”

10 October 2025
09:00–17:00

Trainer: Dr Malte Engel
<https://argumentationskompetenz.de/en/about-us/>

Course description:

In science, thinking clearly and seeing the logical relationships between ideas is as important as are experiments and data. Nevertheless, the logical basics of correct reasoning are not part of the curricula for most university degrees. In this course we introduce basic concepts of logic such as validity and soundness and the distinction between inductive and deductive reasoning. The idea of the course is to use these concepts as a toolbox for various aspects of scientific work. Participants get to know techniques that help them identify strengths and weaknesses in arguments, structure texts optimally, and to state arguments clearly and precisely.

Content:

- basic concepts of logic (validity and soundness of arguments etc.)
- inductive vs. deductive reasoning
- common types of fallacies
- tips and exercises for oral argumentation

Venue: Charlotte Bühler Room (C402), Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig

Registration: Through OpenCampus

Credit Points: Participants have the possibility to receive 0.25 ECTS CPs
Condition: At least 80% attendance

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