

Zertifikat Hochschullehre Mathematik
Mathematisches Institut, Universität Freiburg

Certificate Teaching of Mathematics in Higher Education

1. The Department of Mathematics certifies the extent and type of teaching achievements at the Department of Mathematics of the University of Freiburg by researchers who have not submitted their habilitation. It can be used in applications to document their teaching skill set. The explicit criteria indicated by the certificate are meant to underscore the expectations that would typically be applied to applications to tenured academic positions. These criteria should be taken into account by advisors, mentors and the junior researchers themselves.

2. The Certificate has two levels. Level 1 certifies achievement in supporting roles in teaching as is typical of the early postdoc phase. The candidate has to submit a total of 5 points from the list in Appendix A. Level 2 certifies achievements in independent teaching as is typical of an advanced postdoc phase of Junior Professorship. The candidate has to submit 5 points from the list in Appendix B. It is possible for the certificate to be issued multiple times so that additional achievements can be taken into account.

In addition, the certificate requires the submission of a teaching statement as well as an exchange of feedback with a tandem partner within the framework of a particular class.

2a. In the teaching statement, the junior researcher formulates their teaching experience, plans for teaching and teaching philosophy in the form and length typical for applications in academia. The submission of teaching evaluations is optional. They receive feedback from the advisor or mentor.

2b. The junior researcher and their tandem partner each specify a class in which they will visit each other twice during the semester. They give oral feedback and discuss plans, strengths and weaknesses.

The certificate is granted by the Dean of Study of the Department of Mathematics upon application. He/she decides about the recognition of the achievements. He/she can delegate this task to one of the professors or Privatdozenten at the Department of Mathematics.

Appendix A

Definition of teaching achievements and point weights on level 1

Assistent for seminar/proseminar (1 point)

Assistent for a practical exercise class (1 point)

Assistent for an advanced lecture (1 point)

Assistent for a compulsory lecture (1 point)

Assistenz for a First Year lecture (2 points)

Co-supervision of a Bachelor or Master of Education Thesis (1 point)

Co-supervision of Bachelor of Science Thesis (2 points)

Other teaching in higher education (1 point)

Appendix B

Definition of teaching achievements and point weights on level 2

Conducting a seminar/proseminar in a mathematical degree course (1 point)

Conducting a practical exercise class (1 point)

Conducting a programming course (1 point)

Teaching a specialised lecture for M.Sc./PhD students

Teaching a lecture from the canon of classes 2+1, 2+2 (2 points)

Teaching a lecture from the canon of classes 4+2 (3 points)

Series of talks at a summer school/organisation of a summer school (1 point)

Supervision of a Bachelor-Thesis or Master of Education (1 point)

Supervision of a M.Sc. Thesis (2 points)

Supervision of a doctoral thesis (2 points)

Other teaching in higher education (1 point)