Lecturer
Dr. Friedrich Philipp
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Office Hours: Mo 10:30-11:30

Lecture
Tu 12-14, MA 376 and Th 16-18, MA 649.

Exercise
Fr 12-14, MA 376

The first exercise will start on October 17. Please note that the exercise is an essential part of the course. Additional material and problems will be discussed, which will be helpful for the next homework. The exercise sheets will be uploaded on each Friday on ISIS. You must hand in your solutions at the beginning of the exercise the week after. We will also return your homework to you in the exercise. In order to be allowed to take the oral exam, you need to collect at least 50% of the total number of points.

Contents of the Course
The following topics will be covered in the course:

- Spectral Theory for selfadjoint operators in Hilbert spaces,
- Fourier Analysis, in particular Fourier Transform,
- Theory of Distributions,
- Sobolev Spaces,
- Approximation Theory.

Exam
A prerequisite for the exam is to have reached at least 50% of the total number of points in the exercises. The oral exams will take place in the beginning and at the end of the term break. The exact dates will be announced later during the course.

course gives 10 ECTS points. Please note that you can only enroll for a slot on the examination dates until one week before. We stress that depending on your subject of studies, the examination office might have even stricter application deadlines. Similarly, you can cancel your exam only until one week before your slot, except for emergency situations. You may want to check the university exam regulations.

**ISIS**

Please do not forget to enroll in ISIS as a participant of this course. The following will be frequently posted on this website:

- News concerning the course,
- Homework problems,
- This handout.

**Literature**

A collection of selected books for this course can be found in the “Semesterapparat” of the library. For example