

COURSE DESCRIPTION

Course Name	K-theory of C^* -algebras
Course Type	Reading course (wrd)
Supervisor	Piotr M. Hajac
ECTS credit allocation	4 – IM PAN's Ph. D. programme; 6 - recommended for MSc programmes
Duration	One semester
Number of hours	30
Language	English
Prerequisites	Basic knowledge of C^* -algebras and homological algebra
Course content	Construction of odd and even K-groups, 6-term exact sequence, Bott periodicity.
Recommended reading	<ol style="list-style-type: none">1. K-Theory for Operator Algebras by Bruce Blackadar.2. An Introduction to K-Theory for C^*-Algebras by M. Rørdam, Flemming Larsen, N. Laustsen.3. K-theory and C^*-algebras: A Friendly Approach by Niels Erik Wegge Olsen.
Learning outcomes	Ability to compute K-groups of C^* -algebras using the 6-term exact sequence.
Assessment methods and criteria	exam
Remarks	