



Bachelor en sciences et ingénierie - mathématiques (académique)

Analyse fonctionnelle	
Module:	Module 6.1, Semester 6
ECTS:	3
Objective:	Knowledge of basic notions and techniques in linear functional analysis
Course learning outcomes:	Ability to treat with problems in linear functional analysis
Description:	<ol style="list-style-type: none"> 1. Motivation and Fourier series 2. Normed vector spaces 3. Hahn-Banach Theorem, Baire Category Theorem, Banach-Steinhaus Theorem 4. Open Mapping Theorem, Closed Graph Theorem, adjoint operators 5. Hilbertspaces 6. Spectrum of bounded operators
Organization:	cours magistral
Language:	English
Lecturer:	TOMASCHEK Jörg
Mandatory:	Yes
Rating:	Written and oral exam
Note:	<p>Littérature / Literatur / Literature :</p> <p>Harro Heuser: Funktionalanalysis, B.G. Teubner</p> <p>John D. Pryce: Basic Methods of Linear Functional Analysis, Dover Publications Inc.</p> <p>Walter Rudin: Functional Analysis, McGraw-Hill</p> <p>Francois Trèves: Topological Vector Spaces, Distributions and Kernels, Dover Publications Inc.</p> <p>Dirk Werner: Funktionalanalysis, Springer</p> <p>Support / Arbeitsunterlagen / Support :</p> <p>See moodle webpage of thecourse</p>

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URL: http://wwwde.uni.lu/formations/fstc/bachelor_en_sciences_et_ingenierie_mathematiques_academique/programme

Datum: Mittwoch, 14. August 2013
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