

MATH-416	Analysis	on	groups
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Cursus	Sem.	Type
Ingmath	MA1, MA3	Opt.
Mathématicien	MA1, MA3	Opt.

Monod Nicolas

Language of teaching	English
Credits	5
Session	Winter
Semester	Fall
Exam	Oral
Workload	150h
Weeks	14
Hours	4 weekly
Courses	2 weekly
Exercises	2 weekly
Number of positions	

Summary

We study analytic phenomena on groups, notably paradoxical decompositions and fixed point properties.

Content

Paradoxical decompositions Fixed point theorems Harmonic analysis

Learning Prerequisites

Recommended courses

Topology I, II

Learning Outcomes

By the end of the course, the student must be able to:

• The students will demonstrate a deep understanding of the concepts introduced in the lecture. They will understand paradoxicality. They will prove fundamental results. Rigor is a paramount skill to be demonstrated and creativity a key asset to be displayed.

Teaching methods

Ex cathedra lecture and exercises in the classroom

Expected student activities

- Follow the lectures
- Attend the exercise sessions
- Attempt to solve all exercises and write up the result of these attempts
- Work over the lecture

Assessment methods

Exam oral

Dans le cas de l'art. 3 al. 5 du Règlement de section, l'enseignant décide de la forme de l'examen qu'il communique aux étudiants concernés.

Supervision

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Office hours Yes
Assistants Yes
Forum No

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