

MATH-694

Optimal control of Partial differential equations

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Cursus	Sem.	Type
Mathematics		Obl.

Language of teaching	English
Credits	2
Session	
Exam	Oral presentation
Workload	60h
Hours	28
Courses	14
TP	14
Number of positions	

Remark

Next time: Spring 2018

Summary

This is on the chapters 2 and 3 of the book "Optimal control of partial differential equations" of Fredi Tröltzsch. The course covers fundamental topics on optimal control for elliptic and parabolic equations such as the existence of optimal solutions and necessary optimality conditions.

Content**Keywords**

Control theory, Optimal control

Learning Prerequisites**Required courses**

Sobolev spaces and elliptic equations

Learning Outcomes

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

- have some background on optimal control of PDEs.

Resources**Bibliography**

Optimal control of partial differential equations of Fredl Tröltzsch