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**
Lecture	14
Practical work	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 Troltzsch. The course covers fundamental topics on optimal control for elliptic and parabolic equations such as the existence of optimal solutions and neessary 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 Troltzsch