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Cursus		Sem.	Туре	Language of	English
Mathematics			Obl.	teaching	Linglish
				Credits	3
				Session	
				Exam	Oral
					presentation
				Workload	90h
				Hours	42
				Courses	24
				TP	18
				Number of	10
				positions	

# Frequency

#### Only this year

# Remark

Next time: Fall 2018

# Summary

The arithmetic of elliptic curves is an area of modern number theory which studies properties of points on elliptic curves over various fields. Due to the relative simplicity, this subject has been well studied and many patterns and regularities have been discovered.

# Content

The arithmetic of elliptic curves is an area of modern number theory which studies properties of points on elliptic curves over various fields. Due to the relative simplicity, this subject has been well studied and many patterns and regularities have been discovered. A few examples of such statements are: Sato-Tate conjecture, Birch and Swinnerton-Dyer conjecture, Modularity theorem. In this course we plan to discuss basic properties of elliptic curves, recent results, and open conjectures.

# Note

This course will take place in a form of a seminar. Each participant is expected to give a talk. The talks will be distributed during the first lecture

# **Learning Prerequisites**

# **Required courses**

Participants are expected to have basic knowledge in algebra, number theory, and complex analysis.

