Summary
This is a course on the geometry of algebraic varieties defined over fields of positive characteristic.

Content
The goal of the course is to learn the most possible techniques in positive characteristic algebraic geometry. Examples of such techniques are: techniques connected to Kodaira vanishing and non-vanishing, such as torsor- and semi-positivity-method, bend and break, Keel’s lifting statement, Forbenius trace method, generic vanishing in positive characteristic. Students will learn as much of these techniques as possible during a semester.

Keywords
algebraic geometry, positive characteristic

Learning Prerequisites

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

• understand positive characteristic techniques in algebraic geometry

Resources

Notes/Handbook
provided course notes