MATH 519
Complex Geometry
(2019 Fall Semester)

by
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Prerequisites: Consent of the instructor

Credits: (3-0)3 / 7 ECTS

Outline(tentative): This is an introductory course on complex geometry. However, we will stick to the algebraic viewpoint. At certain times I will remark the analogous statements in the language of complex geometry and mention the connections/relations with the topics that you know. We will study mostly algebraic curves. Our text book is Lorenzini's An Invitation to Arithmetic Geometry. The students are expected to present at least one topic each week.
Some advanced undergraduate knowledge on algebra is necessary. The following is a tentative weekly outline :

Week 1 & 2	Chapter 1
Week 3, 4 & 5	Chapter 2
Week 6, 7 & 8	Chapter 3
Week 9	Chapter 4
Week 10	Chapter 5 (up to and including §5)
Week 11 & 12	Chapter 6
Week 13 & 14	Chapter 9

Bibliography:

- Lorenzini, *An Invitation to Arithmetic Geometry*

Program: Monday , 09h00 - 12h00 Seminer II

Evaluation:

- Presentations & Homeworks: %60
- Final: % 40