

Heures (Hebdo)	4
Cours	2
Exercices	2
Pratique	0
Total	56

Langue	anglais
Semestre	Printemps
Mode d'évaluation	Examen oral
Session	Juillet
Format de l'enseignement	

Cursus	Type	ECTS
Pas de cursus	-	-

Algebraic curves

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Objectifs

This course gives and introduction to algebraic geometry and develops the theory of complex algebraic curves.

Description

- Projective space(s). Plane algebraic curves. Bezout's theorem.
- Rational curves.
- Algebraic curves as complex manifolds. Branched coverings. The Riemann-Hurwitz formula.
- Line bundles and divisors on curves.
- The Riemann-Roch theorem for curves.
- Metrics of constant negative curvature and uniformization theorem.
- Moduli of elliptic curves.