



MATH2121 Galois Theory

[30h] 3 credits

This two-yearly course is taught in 2006-2007, 2008-2009,...

This course is taught in the 2nd semester

Teacher(s): Francis Borceux
Language: French
Level: Second cycle

Aims

1. To give the solution to several problems that played an important role in the development in algebra (equation resolution by radicals and constructions with ruler or compass).
2. To give an introduction to actual methods of unitary bodies or groups theory.

Main themes

The course constitutes an introduction to actual methods of the bodies theory, with its applications to classical problems of algebraic equation resolution by radicals and of construction with ruler and compass.

Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

Prerequisites: elements of linear algebra (first cycle level).

Evaluation: oral examination. The exam consists in the presentation of the personal work done regarding a proposed problem. It includes also summary questions on overall course.

Support: J. Rotman, Galois Theory (2nd edition) Universitext, Springer, 1998 and I. Stewart, Galois Theory, Chapman and Hall, London, 1973.

Other credits in programs

MATH21/G	Première licence en sciences mathématiques (Général)	(3 credits)
MATH22/G	Deuxième licence en sciences mathématiques	(3 credits)