COURSE DETAIL

FUNDAMENTAL AND GALOIS GROUPS
Country Taiwan
Host Institution National Taiwan University
Program(s) National Taiwan University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Mathematics
UCEAP Course Number 174
UCEAP Course Suffix
UCEAP Official Title FUNDAMENTAL AND GALOIS GROUPS
UCEAP Transcript Title FUNDMTL&GALOIS GRPS
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course clarifies relations between the fundamental groups and the Galois groups. As Galois groups can be seen as etale fundamental groups of the base field, the algebraic fundamental groups of algebraic curves (or even schemes) can also be regarded as an etale realization of more general objects, which is the point of view proposed by Grothendieck. The course investigates the algebraic fundamental groups from this point of view. Topics include infinite Galois theory and finite etale algebras of fields; Galois covers and monodromy actions; universal covers and local systems; riemann surfaces; algebraic curves; fundamental groups of algebraic curves.

Language(s) of Instruction
English

Host Institution Course Number
MATH5274

Host Institution Course Title
FUNDAMENTAL AND GALOIS GROUPS

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

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