Central Department of Mathematics, TU

Applications of Galois Theory

Presenter:

Mr. Sandesh Thakuri

Roll no: 43

Supervisor:

Asoc. Prof. Tulasi Prasad Nepal

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1.Field Extension

A field E is said to be an extension field of a field F denoted by E/F, if F can be embedded in E.

2.Galois Field Extension

The field E of F is said to be the Galois extension if E is normal extension of F.

3.Galois Group

Let E/F. Then the set of all automorphisms of E that fixes F, denoted by Aut(E/F) forms a group under the function composition. This group is called the Galois Group.