## Speaker: Dipendra Prasad

Title: A mod-p Artin-Tate conjecture and generalized Herbrand-Ribet

Abstract: Following the natural instinct that when a group operates on a number field then every term in the class number formula should factorize compatibly according to the representation theory (both complex and modular) of the group, we are led – in the spirit of Herbrand-Ribet's theorem on the *p*-component of the class number of  $\mathbb{Q}(\zeta_p)$  – to some natural questions about the *p*-part of the classgroup of any CM Galois extension of  $\mathbb{Q}$  as a module for  $\operatorname{Gal}(K/\mathbb{Q})$ , and about integrality of L-values. This talk will attempt doing this in terms of precise conjectures.