Title: Positive Operators and Their Applications

Speaker: Ntombifuthi Khoza

Supervisors: Mokhwetha Mabula and Sello Mbambo

Abstract:
We discuss, the basic theory of Banach lattices and the operators acting between two Banach lattices (positive operators). The main aim is to discuss the properties of positive operators that have some applications in finding solutions to differential and integral equations. Since the theory of fixed point is an important tool to study various boundary value problems of ordinary differential equations, difference equations and dynamic equations on time scale, we will consider the applications of positive operators for finding the positive solution of differential equations.