EXISTENCE AND UNIQUENESS OF MILD SOLUTION FOR NONLOCAL IMPULSIVE INTEGRO–DIFFERENTIAL EQUATION WITH STATE DEPENDENT DELAY

GANGA RAM GAUTAM, ARCHANA CHAUHAN AND JAYDEV DABAS

Abstract. In this article, we first establish the mild solution for an impulsive fractional integro-differential equation with state dependent delay. Then we prove the existence and uniqueness of solution by applying well known classical fixed point theorems. The obtained results are illustrated with an example.


Keywords and phrases: Fractional order differential equation, functional differential equations, contractions, mild solution, impulsive condition.

REFERENCES


