



INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI  
SHORT ABSTRACT OF THESIS

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Thesis Title: A study on some classes of fractional differential equations with non-instantaneous impulses.

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**SHORT ABSTRACT**

Study of dynamical systems with discontinuous trajectories or with impulse effect, is one of the most exciting subjects due to its extensive applications in realistic mathematical modeling of a wide variety of practical situations. Fractional differential equations which already have the hereditary property, with impulse effect, will give better results and the study of the corresponding theory is a hugely demanding task. This thesis is devoted to the study of the existence and uniqueness of mild solutions of some classes fractional evolution equations subject to non-instantaneous impulses.