1052-93-109   **Dimplekumar N Chalishajar*** (`dipu17370@yahoo..com`), 439, Mallory Hall, Department of Mathematics and computer Sc., Virginia Military Institute (VMI), Lexington, VA 24450, and **Falguni S Acharya** (`falguni_69@yahoo.co.in`), Department of Mathematics, Parul Insti. of Tech and Engg., Waghodia, Vadodara, GU 390002, India. *Trajectory Controllability of Integro differential second order semilinear system in Banach space.*

In this paper we have introduced the new nothin of controllability called Trajectory (T)-controllability. This new nothin can provide safe guard to the systen and it minimize the cost also. Here we have studied first order system for one dimensional casr R and then it is extended for n-dimentional case R^n and subsequently for infinite dimensional case. Then the same are proved for second order system also. The useful tools for this investigation is monotone operator theory and semigroups/cosine operators. Examples are provided to illustrate the theory.