

1116-VC-2244      **timur ayhan\*** (tayhan002@gmail.com), Department of Primary School-Mathematics of, Faculty of Education, Siirt University, 56100 Siirt, Turkey. *Global Existence and Boundedness of a Certain Nonlinear Vector Integro-Differential Equation of Second Order With Multiple Deviating Arguments.*

In this study, we consider a vector integro-differential equation with the multiple deviating arguments. Based on the Lyapunov-Krasovskii functional approach, the global existence and boundedness of all solutions are discussed. We give an example to illustrate the theoretical analysis made in this work and to show the effectiveness of the method used here. (Received September 22, 2015)