Abstract

Economic growth is a process of increase in output per capita in the long term. Many factors can affect economic growth, one of them is the availability of labor, capital and natural resources of a country. In order to achieve maximum economic welfare the use of labor, capital and natural resources must be controlled. In this Final Task, search for optimal control on a simple model of economic growth and economic growth model that was developed by using Hamiltonian methods to obtain maximum economic welfare in each model of economic growth.

Keywords: Hamiltonian, Economic Growth, Optimal Control