# EXECUTIVE SUMMARY OF THE MINOR RESEARCH PROJECT

## IMPROVED VIRTUAL TEST BED AND TESTING STRATEGIES FOR ANTIVIRUS AND OTHER SECURITY PRODUCTS FOR DEVELOPING AN OPEN SOURCE ALTERNATIVE

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**By**

**Manusankar C**

**Assistant Professor**

**Department of Computer Science**

**SSV College Valayanchirangara**

This work was aimed at developing a virtual environment bases strategy for antivirus and other various security softwares. The main objectives like analyzing the protection, performance, usability and repair were achieved on a 5point scale. The results were close enough with manual tests conducted by various institutions in this field.

The Test bed was developed within the first 6 months and for better analysis we had to extend our project up to the middle of 2015 so as to analyze 3 versions of the same AV products. The refined testing strategy was developed in python and was devolved as an application. Several malware samples was collected from various researcher around the globe so as to test the efficiency of products for unknown infections.

The results obtained were compared and it was noted that for some security products the results are drastically changing every year and in some cases within months, but for some other products the results seems to be steady. I was notable to confirm it because I had changed the test conditions also in a drasticmanner with in the last 12 months, so now I have kept the test files constant and will be monitoring the results for the next year as well as a continuation of my research.