

CERTIFICATE

This is to certify that the thesis entitled “**Novel Approaches for improving Quality of Service (QoS) Centric Web Service Composition**”, submitted by Mrs. **SUJATHA VARADI** in the Department of **COMPUTER SCIENCE & ENGINEERING, GITAM INSTITUTE OF TECHNOLOGY**, GITAM University for the award the degree of Doctor of Philosophy in **Computer Science and Engineering** is a record of bonafide research work carried out under my supervision.

Date: 30-04-2018


Signature of the Supervisor

Dr. G. Appa Rao,
Professor,
Dept. Of CSE, GIT,
GITAM University,
Visakhapatnam, AP.