

## CERTIFICATE

This is to certify that the dissertation entitled "**CONNECTEDNESS IN FUZZY TOPOLOGICAL SPACES, L-FUZZY TOPOLOGICAL SPACES AND INTUITIONISTIC FUZZY TOPOLOGICAL SPACES**" submitted to the Avinashilingam University for Women, Coimbatore, in partial fulfillment of the requirements for the award of the **DEGREE OF MASTER OF PHILOSOPHY IN MATHEMATICS** is a record of original research work done by **M.SUGANYA**, during the period of her study in the Department of Mathematics, Avinashilingam University for Women, Coimbatore – 641 043, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or similar title to any candidate of any other university.

*G. K. Chandran*

**Signature of the Guide**

*Parvathi*

**Signature of the Head of the Department**