

## CERTIFICATE

This is to certify that the dissertation entitled “On  $\beta^{**}$  Generalized Closed Sets in Intuitionistic Fuzzy Topological Spaces” submitted to the Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, in partial fulfilment of the requirements for the award of the Degree of **Doctor of Philosophy in Mathematics**, is a record of original research work done by **Sudha, S.M.** during the period of her study in the Department of Mathematics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, under my supervision and guidance and the thesis has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or similar title of any candidate of any University.

P. Jeyalaxmi  
12.10.2020

Signature of the

Head of the Department

Sudha S.M.  
12/10/2020

Signature of the Supervisor

P. W. Jayachandran  
12.10.2020

Signature of the Dean

## DECLARATION

I, **Sudha, S.M.**, hereby declare that the thesis, entitled “**On  $\beta^{**}$  Generalized Closed Sets in Intuitionistic Fuzzy Topological Spaces**” submitted to the Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, in partial fulfilment of the requirements for the award of the Degree of **Doctor of Philosophy in Mathematics** is a record of original and independent research work done by me during the period under the supervision and guidance of **Dr.D.Jayanthi**, M.Sc., M.Phil., Ph.D., Assistant Professor (SS), Department of Mathematics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, and it has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or similar title of any candidate of any University.



Signature of the Supervisor



Signature of the Candidate