



# Certificate

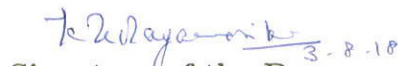
This is to certify that the thesis entitled “A Generalization of Delta Closed Sets in Topological Spaces and Applications” submitted to Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, in partial fulfillment of the requirement for the award of the Degree of **DOCTOR OF PHILOSOPHY IN MATHEMATICS**, is a record of original research work done by Ms. **Vaishnavy, V.**, as a full time Research Scholar, during the period of her study August 2015 to August 2018 in the department of Mathematics at Avinashilingam Institute for Home Science and Higher Education for Women, Deemed University, Coimbatore, under my supervision and guidance.

I further certify that this research work has not formed the basis of the award of any other Degree/Diploma/Associateship/Fellowship or other similar title to any candidate of this or any other university.

  
Signature of the

Head of the Department

  
Signature of the Supervisor

  
Signature of the Dean 3-8-18

## Declaration

I, Vaishnavy, V., hereby declare that the thesis, entitled “A Generalization of Delta Closed Sets in Topological Spaces and Applications” submitted to Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, in partial fulfillment 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. K. Sivakamasundari, M.Sc., M.Phil., D.H. Ed., Ph.D., Professor, Department of Mathematics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore.

I further declare that this research work has not formed the basis of the award of any other Degree/Diploma/Associateship/Fellowship or other similar title to any candidate of this or any other university.



Signature of the Supervisor



Signature of the Candidate