

CERTIFICATE

This is to certify that the thesis entitled "**Analysis on Properties of λ_g^a -Closed Sets in Topological Spaces**" submitted to 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 **S. Subhalakshmi**, as Full time Research Scholar, during the period of her study from **January 2020 to June 2022** in the Department of Mathematics at 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 other similar title to any candidate of this or any other University.

N. Balamani
01-06-2022

Signature of the

Head of the Department

N. Balamani
01.06.2022

Signature of the Supervisor

S. Subhalakshmi
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Signature of the Dean

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DECLARATION

I, **S. Subhalakshmi** hereby declare that the thesis entitled "**Analysis on Properties of λ_g^α -Closed Sets in Topological Spaces**" submitted to 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 from January 2020 to June 2022 under the supervision and guidance of **Dr. N. Balamani**, Assistant Professor (SS) and HOD (i/c), Department of Mathematics, School of Physical Sciences and Computational Sciences, 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 other similar title to any candidate of this or any other University.

N. Balamani
01.06.2022

Signature of the Supervisor

S. Subhalakshmi
01.06.2022

Signature of the Candidate