

DECLARATION

Declaration

I, **R.VIJAYAKUMARI**, hereby declare that the thesis, entitled “**A STUDY ON THE STABILITY OF CERTAIN PARALLEL AND NON-PARALLEL SHEARFLOWS UNDER LONG WAVELENGTH PERTURBATIONS**”, submitted to the Bharathiar University, 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 2004 to 2016 under the Supervision and Guidance of **Dr. K. SUMATHI**, *M.Sc., M. Phil., Ph.D., PGDCA*, Associate Professor, Department of Mathematics, PSGR Krishnammal College 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 in any University.

Signature of the Candidate

Countersigned

PRINCIPAL

CERTIFICATE

Certificate

This is to certify that the thesis, entitled “**A STUDY ON THE STABILITY OF CERTAIN PARALLEL AND NON-PARALLEL SHEARFLOWS UNDER LONG WAVELENGTH PERTURBATIONS**”, submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of *Doctor of Philosophy in Mathematics*, is a record of original research work done by **Mrs. R. VIJAYAKUMARI** during the period 2004 to 2016 of her research in the Department of Mathematics at PSGR Krishnammal College 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 any University.

Signature of the Hod

Signature of the Guide

Countersigned

PRINCIPAL

ACKNOWLEDGEMENT

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