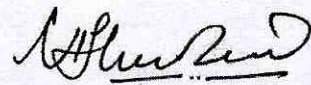


**CERTIFICATE**

This is to certify that the dissertation entitled “**Anti-microbial and anti-biofilm activity of *Punica granatum* leaf extract**” submitted to the Karpagam Academy of Higher Education in partial fulfilment of the requirements for the award of the degree of **Master of Science in Biotechnology** is a bonafide record of original research work done by **NAGAMANJARI @ PRABHA S (18BTP016)** during the period 2019-20 of their study in the Department of Biotechnology (FASH) at Karpagam Academy of Higher Education, Coimbatore, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/Diploma/Associate/Fellowship or similar title to any candidate of any University.

**Signature of Head of the Department**

Head of the Department  
Department of Biotechnology  
Faculty of Arts, Science and Humanities  
Karpagam Academy of Higher Education  
Coimbatore – 641 021, Tamil Nadu, India.

**Signature of the Guide**

(Dr. P. K. Anilkumar)