

PSGR Krishnammal College for Women



* UGC-certified College of Excellence * Autonomous * Affiliated to Bharathiar University * ISO 9001:2015 Certified * Reaccredited with 'A' Grade by NAAC * Ranked 16* in NIRF 2018 by MHRD

GRG TRUST RESEARCH PROJECT

A Study on Linear Stability of Nanofluids through Porous Medium

PI: Dr.S.Aiswarya Co PI: Nil

Amount Sanctioned: Rs. 0.40 lakhs Year: 2019-20

Project outcomes:

- A theoretical model is developed to exhibit the stability of nanofluids through saturated porous medium.
- > Stability of Nanofluids in presence of rotation and magnetohydrodynamics has been derived and is found to be in good agreement with literature results.

Publications:

1. "Stability of Natural Thermal Convection in a Rotating Nanofluid Saturated by a Permeable Medium", International Journal of Mechanical and Production Engineering Research and Development (IJMPERD),10(3), 2020, pp. 1419 - 1434.

(Scopus Indexed)

"Linear Stability of Thermo Convection in a Nanofluid Through a Porous Medium", Communications in Mathematics and Applications, 12(3), 2021, pp. 677–689.
 (Web of Science Indexed)