

## 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)*
2. “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)*