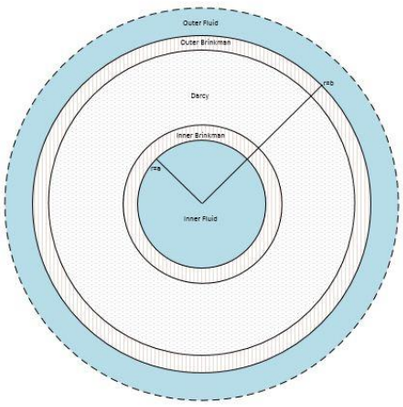
The University of the West Indies
Faculty of Science & Agriculture
Department of Mathematics & Statistics

PhD. Seminar Notice

Title: **The Study of Heat Transfer of a Viscous Incompressible Fluid past a Deformable Permeable Shell Using the Brinkman-Darcy Model.**



Abstract:

In this seminar, the study of momentum and heat transfer of a viscous incompressible fluid past a porous shell will be discussed. The porous region is modelled using a regime including a Darcy sandwiched by two Brinkman layers. Consideration is given to perturbing the outer surface of the sphere, as prescribed by Ayaz, and it is observed that both the level of perturbation and permeability has effects on both the momentum and heat transfer of the system. Relevant graphs involving Stream-functions and Isotherms will be given, while computations involving Nusselt number and Drag will also be presented.

Speaker: **Mr. Dayle Jogie**
3rd PhD. Seminar

Date: Thursday 14th May, 2015

Place: FST Room 412

Time: 11:00 AM – 12:00 PM