



UPM
UNIVERSITI PUTRA MALAYSIA
BERILMU BERBAKTI



8/2022

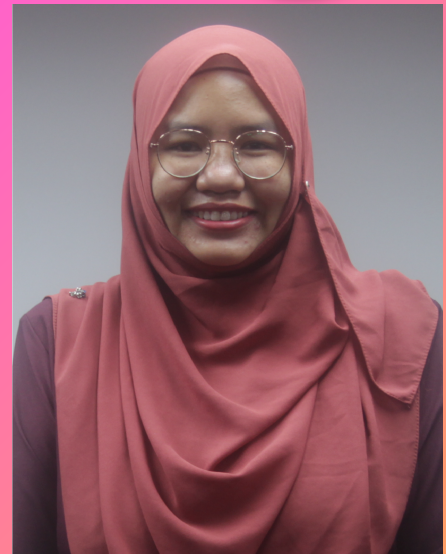
INSPEM'S ONLINE WEEKLY SEMINAR

DATE : 25 FEBRUARY 2022 (FRIDAY)

TIME : 3.15 PM



Meeting ID: 973 4661 1675



DR. SHAHIRAH BINTI ABU BAKAR
Post Doctoral
Laboratory of Computational Sciences
and Mathematical Physics,
Insitute for Mathematical Research,
Universiti Putra Malaysia.

INSPEM Class of 2018

Topic : Nanofluid vs Hybrid Nanofluid: An Overview

Abstract

Various ways in improving heat transfer rate have been proposed such as by changing flow geometry, adding surface extensions, or converting boundary conditions. Among of all methods, nanofluids have been introduced as one of an efficient technique in improving heat transfer rate as they are primarily used for their enhanced thermal properties as coolants in heat transfer equipment. Further observation on nanofluids then opened an opportunity to disperse two different nanoparticles into conventional heat transfer fluid and possessed 'hybrid nanofluid'. This process gives positive advantages since it carries a high effective thermal conductivity and is proven to give better improvement in heat transfer rate compared to nanofluids. Nevertheless, several studies have also reported that hybrid nanofluid possessed less than regular nanofluid. Hence, the focus of this presentation is to provide the reader with an overview of this field, where the comparison studies between nanofluid and hybrid nanofluid are emphasized, as well as their applications in various industries.

facebook.com/UniPutraMalaysia

@uputramalaysia

instagram.com/uniputramalaysia

youtube.com/user/bppupm



AGRICULTURE • INNOVATION • LIFE

BERILMU BERBAKTI
WITH KNOWLEDGE WE SERVE

www.upm.edu.my