CURICULUM VITAE

Name : Erny Afiza Binti Alias
Designation : University Lecturer
Grade : DS51-A
Staff ID : 01831
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Qualification

1. Dr. (Eng.) in Engineering, Science and Technology, Tokai University, Japan, 2016
2. ME in Mechanical Engineering, Tokai University, Japan, 2013
3. BE in Mechanical Engineering, Tokai University, Japan, 2011
4. Diploma in Mechanical Engineering, Universiti Industri Malaysia, Malaysia, 2009

Brief Profile

Dr. Erny Afiza Binti Alias is a senior lecturer currently working at the Faculty of Mechanical Engineering, Universiti Malaysia Pahang since December 2016. She received his B.Eng, M.Eng and Ph.D from the Tokai University, Japan in 2011, 2013 and 2016, respectively. Her research interests are in the areas of air flow pattern in nasal cavity, characteristic of micro bubbles, fluid mechanics, and computational modelling

Expert Areas

air flow pattern in nasal cavity, characteristic of micro bubbles, fluid mechanics, and computational modelling

Working Experience/ Appointment

December 2016 – Present : Permanent Training, Senior Lecturer, Faculty of Mechanical Engineering, Universiti Malaysia Pahang.

09/01/2016 – 31/12/2016 : Coordinator for Curiculum and Examination for BMA, Faculty of Mechanical Engineering, Universiti Malaysia Pahang.

January 2017 – Present : Reviewer Panel for International Journal of Automotive and Mechanical Engineering (IJAME) & Journal of Mechanical Engineering and Sciences (JMES)

02/01/2017 – 31/12/2017 : Coordinator for Curiculum and Examination for BMA, Faculty of Mechanical Engineering, Universiti Malaysia Pahang.

Teaching Experience

Year	Subject Code	Subject	Category	Credit Hour	Total Students
2016/17	BMM3521	Engineering Fluids Mechanics Lab	Laboratory	1	15
2016/17	BMM3611	Manufacturing Processes Lab	Laboratory	1	5
2016/17	DMM2533	Fluids Mechanics	Lecture, Laboratory	3	56

Supervision

Program : Bachelor in Mechanical Engineering (FYP)
Year : 2017

Title	Student Name	Start	End	Status	Role
Simulation of Wind Flow Around a Building	MUHAMMAD FARID IMRAN BIN ABDUL WAHID	12/03/2017	-	Active	Supervisor
simulation of wind around buildings	MUHAMMAD SYAFIQ BIN AZMAN	12/03/2017		Passed	Supervisor
Experimental modelling microbubbles in diesel fuels	MUHAMMAD AMIRUL AMRI BIN ABDULLAH	4/09/2017		Active	Supervisor

Research Grant

Title & Project ID	Role	Start	End	Status
Development of micro bubbles diesel fuel to enhance engine performance (RDU1703155)	Leader	20/06/2017	19/06/2019	Active
Study on microbubble clustering in proximity of boundaries in ultrasonic fields (RDU170126)	Member	15/08/2017	14/08/2019	Active

Publications

Year	Title
April 2016	"Effects of Ostia Variation for Airflow Patterns within Nasal Cavity Models with Maxillary Sinus,", Journal of Medical and Bioengineering, Vol. 5, No. 2.

2016	"Function of Ostia in Airflow Patterns within Nasal Cavity Model with Maxillary Sinus", American Scientific Research Journal for Engineering, Technology and Sciences, Vol. 21, No. 1.
Mac 2012	"Effect of Skin Friction Reduction by Microbubbles in Pipe Flow", Proc. Schl. Eng. Tokai Univ., Ser. E, 2012, Vol.37, pp.23-27.
Mac 2015	"A Study on Ostia variation for Airflow Patterns within Nasal Cavity Models with Maxillary Sinus", Proc. Schl. Eng. Tokai Univ., Ser. E, 2015, Vol.40, pp.89-96.
Mac 2015	"Airflow pattern within Real and 3D simplified Models of Nasal Cavities (Ⅰ Experimental study)", Proc. Schl. Eng. Tokai Univ., Ser. E, 2015, Vol.40, pp.97-108.
Mac 2015	"Airflow pattern within Real and 3D simplified Models of Nasal Cavities (Ⅱ Numerical study)", Proc. Schl. Eng. Tokai Univ., Ser. E, 2015, Vol.40, pp.109-119
August 2012	"Skin Friction Reduction by Micro Bubbles in Pipe Flow", Conference on Modelling Fluid Flow (CMFF'12), Budapest.
November 2013	Study of Airflow Patterns within Real and Simplified Models of Nasal Cavities (Previous knowledge and future plannings)", MJIIT-JUC Joint International Symposium 2013 (MJJIS2013), Proceedings (CD-ROM), OS9-01-3.
June 2014	"Investigation of Airflow Patterns within Real and Simplified Models of Nasal Cavities (Variation of Simplified Models)", 16th International Symposium on Flow Visualization (ISFV16), Proceedings (CD-ROM), ISFV16-1213.
November 2013	"Investigation of Airflow Patterns within Real and Simplified Models of Nasal Cavities", The 12th International Symposium on Fluid Control, Measurement and Visualization (FLUCOME2013), Nara, Japan.