



Dr. Azizuddin Abd Aziz  
Senior Lecturer

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## Academic Qualification

D.Eng., Kyushu University, 2015  
M.Sc. (Mechanical), UPM, 2005  
B.Eng. (Hons) Mechanical, UTM, 1997

## Brief Profile

Currently, Dr. Azizuddin is a senior lecturer at Faculty of Mechanical Engineering in Universiti Malaysia Pahang. After graduation, he works at Sime Darby Mecombe Engineering Sdn. Bhd. for about 6 years to become a project engineer. His responsibilities were to supply and commission the boiler and cooling tower feedwater system to downstream oil and gas facilities. He switched his career and became an academician in 2003 at Twintech University College, Damansara before shifting to UniKL Malaysian Institute of Marine Engineering Technology (MIMET) in Lumut, Perak. His interest in research is in the area of air-conditioning and building energy system.

## Working Experiences / Appointment

2007 ~	Senior Lecturer, Faculty of Mechanical Engineering, UMP
2006 ~ 2007	Lecturer, UniKL Malaysian Institute of Marine Engineering Technology
2004 ~ 2005	Lecturer, Twintech University College
1997 ~ 2003	Project Engineer, Sime Darby Mecombe Engineering Sdn. Bhd.

## Research Area

Air-conditioning  
Building energy system

## Professional Membership

Board of Engineers Malaysia  
GE29156 Graduate Engineer

## Teaching Experience

2004/05-II Dec	Statik Mekanik Bendalir I
2005/06-I July	Statik Mekanik Bendalir I
2005/06-II Dec	Fluid Mechanics
2006/07-I July	Fluid Mechanics
2006/07-II Dec	BMM3513 Heat Transfer
2007/08-I July	BMM3513 Heat Transfer BMM3912 Final Year Project 1 (coordinator) BMM3924 Final Year Project 2 (coordinator)
2007/08-II Dec	BMM2533 Heat Transfer BMM3912 Final Year Project 1 (coordinator) BMM3924 Final Year Project 2 (coordinator)
2007/08-III May	BMM2533 Fluid Mechanics 1
2008/09-I July	BMM2533 Fluid Mechanics 1 BMM3912 Final Year Project 1 (coordinator) BMM3924 Final Year Project 2 (coordinator)
2009/10-II Dec	BMM2533 Fluid Mechanics 2 BMM3912 Final Year Project 1 (coordinator) BMM3924 Final Year Project 2 (coordinator)
2009/10-I July	BMM2533 Fluid Mechanics 1 BMM3912 Final Year Project 1 (coordinator) BMM3924 Final Year Project 2 (coordinator)
2014/15-II Feb	BMM2533 Fluid Mechanics 1 BMM2543 Fluid Mechanics 2
2015/16-I Sep	BMM2543 Fluid Mechanics 2 BMM4912 Final Year Project 1 (coordinator) BMM4924 Final Year Project 2 (coordinator)
2015/16-II Feb	DMM2553 Fluid Mechanics BMM2543 Fluid Mechanics 2 BMM4912 Final Year Project 1 (coordinator) BMM4924 Final Year Project 2 (coordinator)
2016/17-I Sep	BMM2543 Fluid Mechanics 2 BMM4912 Final Year Project 1 (coordinator) BMM4924 Final Year Project 2 (coordinator)
2016/17-II Feb	BMM2543 Fluid Mechanics 2 BMM4912 Final Year Project 1 (coordinator) BMM4924 Final Year Project 2 (coordinator)
2017/18-I Sep	BMM2543 Fluid Mechanics 2 BMM4912 Final Year Project 1 (coordinator) BMM4924 Final Year Project 2 (coordinator)
2017/18-II Feb	BMM2543 Fluid Mechanics 2 BMM4912 Final Year Project 1 (coordinator) BMM4924 Final Year Project 2 (coordinator)

## Research Grant

### Principal Researcher

RDU090371 UMP Short Grant	2009-2010	RM 30,000	<i>Development of Heat Removing System Using Blower Dual Rotation for Passenger Car</i>
RDU140127 KPT FRGS	2014-2017	RM 100,000	<i>Pristine Blade Characteristics Concept emphasizing Mathematical Model Optimization of Floating Undershot Wheel for Picohydropower generators</i>
RDU151122 UMP Seed Money	2015-2016	RM 5,500	<i>Humidity Controlled Air-conditioning System using Solar Desiccant Cycle for Energy savings in Tropical Climate</i>
RDU170385 UMP Short Grant	2017-2019	RM 22,500	<i>Experimental analysis on the performance of condenser waste heat and thermal assisted desiccant wheels dehumidifier for split type air-conditioner</i>

### Co-researcher

RDU160346 UMP Short Grant	2016-2018	RM 28,000	<i>To Develop and Optimize the Geometrical Parameters of Vortex Tube Cooling Device</i>
RDU140127 UMP Short Grant	2016-2018	RM 36,000	<i>Performance Analysis of Automotive Air Conditioning System using Lower Global Warming Potential Refrigerant-R1234yf Operating with Nanolubricants</i>

## List of Publication

1. **A.A.Aziz**, M.A.M.Azhari, A.B.S.Alias, *Comparative performance between split unit and fan coil unit at non-residential building*, International Conference on Advance Mechanical Engineering (ICAME 2009), 22-25 June, Shah Alam, Malaysia, 2009.
2. M.Y.Taib, **A.A Aziz** and A.B.S.Alias, *Performance Analysis of a Domestic Refrigerator*, National Conference in Mechanical Engineering Research and Postgraduate Students (NCMER 2010) 26-27 May, Kuantan, Malaysia, 2010.
3. **A.A.Aziz**, Y.Akashi, D.Sumiyoshi, *Energy performance of grouped unitary air-conditioners in office building*. Journal of Habitat Engineering, Vol. 3, No. 2, ISSN 1883-0647X, 2011.
4. **A.A.Aziz**, Y.Akashi, D.Sumiyoshi, *Investigation of current situation of building energy conservation in Malaysia for optimal for optimal air-conditioning design*, Journal of Architecture and Urban Design, No. 24, ISSN 1346-5325, 2013.
5. **A.A.Aziz**, Y.Akashi, D.Sumiyoshi, *Preliminary study of indoor thermal condition in Malaysia*, Journal of Habitat Engineering and Design, Vol. 5, No. 2, ISSN 2186-6503, 2013.
6. KH Koo, MRR Chand, Hassan Ibrahim, **Azizuddin Abd Aziz**, Firdaus Basrawi, *Theoretical Analysis on the Effect of Operation Strategies on the Environmental Performance of Micro Gas Turbine Trigeneration System in Tropical Region*, Journal of Mechanical Engineering and Automation, Vol. 5, No. 3A, 2015.
7. Ahmad Syazwan Ramli, A. H. Luqman, Firdaus Basrawi, Ahmed N. Oumer, **Azizuddin Abd Aziz**, Zulkifli Mustafa, *A new cooling technique for stingless bees hive*, MATEC Web Conf., Vol.131, No. 3013, 2017.
8. **Azizuddin Abd Aziz**, Daisuke Sumiyoshi, Yasunori Akashi, *Low cost humidity controlled air-conditioning system for building energy savings in tropical climate*, Journal of Building Engineering, Vol. 11, No. 2, 2017.

## Faculty Management

2015	<i>International Conference of Mechanical Engineering Research (ICMER) 2015</i> Secretariat
2016 ~ 2017	<i>Diploma in Mechanical Engineering</i> Head of Programme
2016 ~ 2017	<i>FKM Bulletin</i> Co-editor
2017	<i>International Conference of Mechanical Engineering Research (ICMER) 2017</i> Secretariat
2017	<i>UTP-UMP Symposium on Energy Systems 2017</i> Secretariat

## Bachelor Degree - Final Year Project Supervision

1. Koh Kelvin, MA06071, *Analysis of heat gain against cooling capacity at occupied building*, 2009.
2. Rafidah binti Rahim, MA05089, *Maintenance system analysis of vehicles and air-conditioners at UMP*, 2009.
3. Mohd Hilmi bin Tajud Hasan, MA5032, *Design of air-conditioning system for Universiti Malaysia Pahang mosque*, 2009.
4. Muhammad Azharuddin bin Ibrahim, MA13070, *Air-conditioning performance analysis at UMP Pekan Clinic*, 2017.
5. Fatin Atifah Binti Mohamad Saladeen, MA13022, *Building thermal energy analysis at FKM*, 2017.

## List of Course Attended

1. Designing and Operating Efficient Air-conditioning Systems, Holiday Villa, Subang Jaya, 28 - 29 September 2005, participant.
2. Kursus Pengajaran dan Pembelajaran Modul 1, La Paris Hotel, Port Dickson, 23 - 26 June 2007, participant.
3. Outcome Base Education, Sungai Tembling Resort, 6 July 2007, participant.
4. Outcome Based Education, Holiday Villa, Cherating, 29 February - 2 March 2008, participant.
5. Bengkel Bloom Taxonomy and CQI, 16 August 2008, participant.
6. Introduction to Matlab 7.0, 20 - 22 August 2008, participant.
7. Bengkel Outcome Based Education, Selesa Hillhomes, Bukit Tinggi, 1 - 3 December 2008, participant.
8. Kursus Research Methodology, Angkasa Hotel, Kuala Lumpur, 12 April 2009, participant.
9. Kursus Induksi, modul khusus, Summerset Resort, Rompin, 18 - 30 August 2009, participant.
10. Kursus Induksi, modul umum, Sanctuary Resort, Cherating, 18 - 19 September 2009, participant.
11. Bengkel ISO 9001:2008 Introduction and Awareness, Bukit Gambang Resort City, 22 - 23 December 2009, participant.