



DR. AHMAD FITRI BIN YUSOP

Senior Lecturer

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Academic Qualifications

1. B.Eng. Mechanical (Aeronautics), Universiti Teknologi Malaysia (UTM), 2010
2. PhD in Mechanical Engineering, Universiti Malaysia Pahang (UMP), 2016

Brief Profile

Previously, I was working as an Engineer at JK Wire Harness Sdn. Bhd. I was graduated in a year 2010 for bachelor degree at Universiti Teknologi Malaysia in Mechanical Engineering (Majoring in Aeronautical Engineering). Now currently, I was working as a Senior Lecturer in UMP.

Working Experiences / Appointment

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|-------------------------|---------------------------------------|
| 1. July 2010 ~ Aug 2011 | Engineer in JK Wire Harness Sdn. Bhd. |
| 2. Aug 2015~ Jan 2016 | Tutor at UMP |
| 3. Jan 2016 ~ Present | Senior Lecturer |

Research Area / Research Interest

Manufacturing, Automotive Engine, Renewable energy, Particulate Matter (PM), Internal Combustion Engine

Professional Qualification / Membership / Affiliation / Experience

MEMBERSHIP OF PROFESSIONAL BODY & PROFESSIONAL EXPERIENCE

- The Institution of Engineers, Malaysia (IEM No. 40349)
- Certified ISO 9001:2008 and TS 16949 Automotive Process Approach Auditing
- Occupational Safety and Health Course (OSHA)
- Board of Engineers, Malaysia (2012 – present).

PROFESSIONAL COURSE ATTENDED

- Occupational Safety and Health Course (OSHA)
- Understanding Lubricating Oil Analysis
- How to Get Yourself Employed
- Cambridge English – Business English (First Certification English Programme)
- Certified ISO 9001:2008 and TS 16949 Automotive Process Approach Auditing

TECHNICAL EDITOR AND JOURNAL/PAPER REVIEWER

- Global Journal of Technology & Optimization
- Journal of Fuel, Elsevier

Management Experience

- Final Year Project Coordinator for Dual Degree Programme (UMP-HsKA Gernamy) (2016 – 2017)
- EAC Documentation Coordinator (2015 – present)
- Promotion coordinator for Master Programme (2017 – present)

Teaching Experience

Subject	Programme Level	Semester
Railway Technology	Degree	SEM 2 (17/18)
Fluids Mechanics	Degree	SEM 2 (17/18)
Engineering Fluids Mechanics Lab	Degree	SEM 1 (17/18)
Railway Technology	Degree	SEM 1 (17/18)
Technical Drawing	Dual-Degree	SEM 1 (17/18)
Fluids Mechanics	Degree	SEM 2 (16/17)
Internal Combustion Engine	Dual-Degree	SEM 2 (16/17)
Computer Aided Design	Dual-Degree	SEM 2 (16/17)
Measurement & Instrumentation	Degree	SEM 1 (16/17)
Internal Combustion Engine	Dual-Degree	SEM 1 (16/17)
Engineering Fluids Mechanics Lab	Degree	SEM 1 (16/17)
Engineering Drawing & CAD	Degree	SEM 1 (16/17)
Electric & Electronics (Dual Degree Programme)	Degree	SEM 2 (15/16)
Electric & Electronics	Degree	SEM 2 (15/16)
Engineering Fluids Mechanics Lab	Degree	SEM 2 (15/16)
Measurement & Instrumentation	Degree	SEM 2 (15/16)
Mechanical Vibration Lab	Degree	SEM 1 (15/16)
Engineering Fluids Mechanics Lab	Degree	SEM 1 (15/16)
Internal Combustion Engine	Dual-Degree	SEM 2 (15/16)

Degree / Final Year Project Supervision

Year	Name	Title
2017-2018	Ahmad Zul Adam Bin Muhammad Suhaimi	Effect Of Emulsified Fuel With Ethanol On Performance And Exhaust Emission Of Diesel Engine
	Muhamad Ariff Bin Zakaria	Fuel Additive Based On Palm Oil For Gasoline & Diesel Fuel
	Ung Kah Hock	Investigation On Characteristics, Engine Performance And Emissions Of Emulsified Biodiesel With Alcohol
2016 - 2017	Mohammad Nur Arif Bin Usri	Design and Analysis of a Dynamometer and Diesel Engine Test Rig
	Muhamad Arif Asyraf Bin Mat Zain	Development of 1-Dimensional GT-Power Simulation of Diesel Engine with Emulsified Fuel
	Muhamad Fikri Bin Mohd Rosli	Tribology of Emulsified Palm Biodiesel Fuel on The Performance and Pollutant Emitted from Diesel Engine
	Nik Muhammad Asyraf Bin Nik Zain	Development of Portable Chassis Dynamometer for Battery Powered Motorcycle

2015 - 2016	Nazrotul Afina Binti Nazri	Investigation of Engine Performance and Emission Using Biodiesel Fuel
	Armirezal Bin Arbai	Design and Analysis a Two Seater Electrical Car Chassis Frame
	Nur Shamimi Binti Shahirol	Investigation of Particulate Matter & Engine Performance Using Biodiesel Fuel

Post Graduate Supervision

Year	Name	Title	Level
15.03.2018 - present	Syazwana Binti Sapee	Tribology effects On Combustion Performance Of Renewable Biodiesel In Selected Engine	Ph.D
2017 - Graduated	Mohamad Adzuan Bin Aziz	Study Of Alcohol Fuel (Butanol & Ethanol) Effect On The Compression Ignition (Ci) Engine Performance, Combustion And Emission Characteristic	Master
13.02.2017 - present	Salihin Bin Hamri	Improved Oxygenated Combustion Through Alcohol Additive Dilution Approach on a Diesel Engine for Performance and Emission Enhancement	Master
13.02.2017 - present	Hashimah Bt Hussin	Investigation on Environment Factors of Waste Plastics Oil and Its Emulsion to Control The Emission in DI Diesel Engine	Master
05.09.2016 - present	Izuan Bin Izzudin	Investigation of Emulsified Palm Biodiesel Fuel on The Performance and Pollutants Emitted from Diesel Engine	Master
08.09.2016 - present	Ahmad Tamimi Bin Ahmad Termizi	Solid propellant Rocket	Master
08.09.2014 - present	Mohd Hafizil Bin Mat Yasin	Performance Characteristics And Cyclic Variability Of Alcohol Additives In Biodiesel And Diesel Blends Operating With A Diesel Engine	Ph.D

Working Experience

JK Wire Harness Sdn. Bhd.

- Engineer for Wire Harness. Deal with Honda, Toyota, Perodua, Proton, Suzuki and etc.
- Won First Runner Up for Quality Control Circle (QCC) Convention organized by Toyota Supplier Club (TSC) in UMWT, Shah Alam.
- Project with Toyota under Toyota Production System (TPS) for better improvement in Production line and Shipping to customers.
- Understand all the concept of TPS Kaizen step for better improvement which is JIT system, Pull system, JIDOKA, and avoid all MUDA. Always go for Genchi Genbutsu (actual problems).
- Master in Logistic Planning and logistic improvement (Kaizen).
- Certified Internal Audit for ISO 9001:2008 and TS 16949 Automotive Process Approach Auditing

A) International and National Conference Papers

1. **Ahmad Fitri Yusop**, Rizalman Mamat, Abdul Adam Abdullah, Amir Aziz and Mohd Hafzil Mat Yasin, 2012, PM emission of diesel engines using ester-ethanol-diesel blended fuel, *Malaysian Universities Conference On Engineering And Technology 2012*.
2. **Ahmad Fitri Yusop**, Rizalman Mamat, Mohd Hafzil Mat Yasin, Obed M. Ali. "The influence of articulate Matter (M) of diesel engine using Palm Oil Methyl Ester (ME)" (ICBBVAP 2012), 23-24 October, Kuala Lumpur, Malaysia.
3. Mohd Hafzil Mat Yasin, **Ahmad Fitri Yusop**, Rizalman Mamat, Abdul Adam Abdullah, and Amir Aziz, 2012, Fuel Physical Characteristics of Biodiesel Blend Fuels with Alcohol as Additives, *Malaysian Universities Conference On Engineering And Technology 2012*, Accepted.
4. Obed M. Ali, Rizalman Mamat, Che Ku M. Faizal and **Ahmad Fitri Yusop**, 2012, Effect of DEE Additive on Physical Characteristics of Blended Biodiesel Fuel, *International Conference on Biomass for Biofuels and Value Added Product (ICBBVAP 2012)*, Kuala Lumpur, Malaysia, 2012, Accepted.
5. **Ahmad Fitri Yusop**, Rizalman Mamat, Abdul Adam Abdullah, Mohd Hafzil Mat Yasin and Obed Majeed Ali, 2012, Characteristic of particulate matter (PM) and soluble organic fraction (SOF) of diesel engine using Palm Oil Methyl Ester (PME) fuel, National Conference For Postgraduate Research (NCON-PGR 2012), Kuantan, Pahang. Accepted.
6. Mohd Hafzil Mat Yasin, Rizalman Mamat, K.V.Sharma, Abdul Adam Abdullah, **Ahmad Fitri Yusop**, Effects of Exhaust Gas Recirculation (EGR) on a DI Diesel Engine operating with Palm Methyl Ester (PME), *Malaysian Universities International Conference On Engineering And Technology 2011 (Muicet 2011)*, Malaysia, 13-15 Nov 2011, Batu Pahat, Johor.
7. Rizalman Mamat, Mohd Hafzil Mat Yasin, Abdul Adam Abdullah, **Ahmad Fitri Yusop**, Amir Aziz, "Comparative study on biodiesel-methanol-diesel low proportion blends operating with a diesel engine.", *International Conference On Automotive and Vehicle Technologies 2013 (AVTEC13)*, Yildiz Technical Universiti, Turki.
8. **Ahmad Fitri Yusop**, Rizalman Mamat, Mohd Hafzil Mat Yasin, Obed M. Ali, "Effects of particulate matter (pm) emissions of diesel engine using diesel-methanol blends" (ICMER2013), 1-3 July 2013 UMP, Kuantan, Malaysia.
9. Mohd Hafzil Mat Yasin, Rizalman Mamat, **Ahmad Fitri Yusop**, Amir Aziz, "Cyclic Variations of Combustion Characteristics in Diesel Engine operating with B20 Blends with Alcohol Additives", *International Conference of Mechanical Engineering Research (ICMER 2013)*.
10. Obed M. Ali, Rizalman Mamat, Che Ku M. Faizal and **Ahmad Fitri Yusop**. "Influence of oxygenated additive on blended biodiesel-diesel fuel properties" (ICAME2013), 28-29 Aug., UiTM Melaka, Malaysia.
11. Obed M. Ali, Rizalman Mamat, Che Ku M. Faizal and **Ahmad Fitri Yusop**. "Investigation of blended biodiesel fuel properties with diethyl ether additive" (ICMER2013), 1-3 July 2013 UMP, Kuantan, Malaysia.
12. M.K. Akasyah, R. Mamat, **A.F. Yusop**, IM Yusri, NR Abdullah, 2016, Influence of Butanol as Additive in Emulsion Fuel on the Common-Rail Diesel Engine, *1st International Conference on Bioresource Technology for Bioenergy, Bioproducts & Environmental Sustainability*, Stiges, Spain.
13. Mohd Hafzil Mat Yasin, Rizalman Mamat, **Ahmad Fitri Yusop**, Abdul Adam Abdullah, Mohd Hafiz Ali, Mohd Fahmi Othmanb, "Cylinder Pressure Cyclic Variations in a Diesel Engine operating with Biodiesel-Alcohol Blends", *9th International Conference on Applied Energy, ICAE2017*, 21-24 August 2017, Cardiff, UK.

B) Journal & Proceeding

1. **Ahmad Fitri Yusop**, Rizalman Mamat, Agung Sudrajad and Mohd Hafizil Mat Yasin, 2012, Characteristic of particulate matter (PM) of diesel engine using Palm Oil Methyl Ester (PME) fuel, *Journal of Biobased Material & Bioenergy*, (ISSN: 1556-6560, ISI Impact Factor: 1.402).
2. Rizalman Mamat, **Ahmad Fitri Yusop**, Abdul Adam Abdullah, Amir Aziz Nik Rosli Abdullah, Effect of EGR and Air Temperature on Exhaust Emission of a Diesel Engine Operating with Biodiesel, *Journal of Biobased Material & Bioenergy*, (ISSN: 1556-6560, ISI Impact Factor: 1.402).
3. **A. F. Yusop**, et al., "PM Emission of Diesel Engines using Ester-ethanol-diesel Blended Fuel," *Procedia Engineering*, vol. 53, pp. 530-535, 2013.
4. Mohd Hafizil mat Yasin, Rizalman Mamat, **Ahmad Fitri Yusop**, Rafidah Rahim, Amir Aziz, Liyana Amer Shah, "Fuel Physical Characteristics of Biodiesel Blend Fuels with Alcohol as Additives," *Procedia Engineering* 53, 701-706.
5. **A. F. Yusop**, R. Mamat, M.H. Mat Yasin, and S. Suhaimi, Effects of the inlet velocity profiles on the prediction of velocity distribution inside an electrostatic precipitator (ESP), *International Journal of Computer and Electrical Engineering (IJCEE, ISSN: 1793-8163, www.ijcee.org)*, Vol. 6, No. 1, February 2014.
6. M. H. Mat Yasin, T. Yusaf, R. Mamat, and **A. Fitri Yusop**, "Characterization of a diesel engine operating with a small proportion of methanol as a fuel additive in biodiesel blend," *Applied Energy* 114, 865-873.
7. Obed M Ali, Rizalman Mamat, Che Ku M Faizil, **Ahmad Fitri Yusop**, "Influence of Oxygenated Additive on Blended Biodiesel-Diesel Fuel Properties", *Applied Mechanics and Materials* 393, 487-492, 2013.
8. **A.F. Yusop**, R. Mamat, M.H. Mat Yasin, A. Adam Abdullah and Amir Aziz, "Comparative Study Of Particulate Matter (Pm) Emissions In Diesel Engine Using Diesel-Methanol Blends", *Applied Mechanics and Materials* Vols. 465-466 (2014) pp 1255-1261.
9. Nur Fauziah Jaharudin, Abdul Adam Abdullah, **Ahmad Fitri Yusop**, Rizalman Mamat, Nur Atiqah Ramlan and Mohd Herzwan Hamzah, "Study on particulate matter (PM) emissions of diesel engine using Palm Oil Methyl Ester", *Applied Mechanics and Materials* Vols. 465-466 (2014) pp 433-437.
10. Mohd Hafizil Mat Yasin, Rizalman Mamat, K V Sharma, **Ahmad Fitri Yusop**, "Influence of Palm Methyl Ester (PME) as an Alternative Fuel In The Multicylinder Diesel Engine", *Journal of Mechanical Engineering and Sciences* 3 (1), 331-339.
11. Obed M. Ali, Rizalman Mamat, Che Ku M. Faizal, **Yusop AF**. Investigation of blended biodiesel fuel properties with diethyl ether additive. *Journal of Mechanical Engineering & Sciences*.
12. **A.F. Yusop**, R. Mamat, M.H. Mat Yasin, O.M. Ali, "Effects of particulate matter emissions of diesel engine using diesel-methanol blends", *Journal of Mechanical Engineering and Sciences* 6, 959-67, 2014.
13. M.H.M. Yasin, R. Mamat, **A.F. Yusop**, P. Paruka, T. Yusaf, G. Najafi, "Effects of Exhaust Gas Recirculation (EGR) on a Diesel Engine fuelled with Palm-biodiesel", *Energy Procedia* 75, 30-36, 2015.
14. M.H.M. Yasin, P. Paruka, R. Mamat, **A.F. Yusop**, G. Najafi, A. Alias, "Effect of Low Proportion Palm Biodiesel Blend on Performance, Combustion and Emission Characteristics of a Diesel Engine", *Energy Procedia* 75, 92-98, 2015.
15. M.H.M. Yasin, R. Mamat, **A.F. Yusop**, A. Aziz, G. Najafi, "Comparative Study on Biodiesel-methanol-diesel Low Proportion Blends Operating with a Diesel Engine", *Energy Procedia* 75, 10-16, 2015.
16. A. Sudrajad, **A.F. Yusop**, "Review of Electrostatic Precipitator Device for Reduce of Diesel Engine Particulate Matter", *Energy Procedia* 68, 370-380, 2015.
17. Omar Awad, Dr, Rizalman Mamat, Dr, OBED MAJEED ALI , Dr, ABDUL ADAM BIN ABDULLAH , Dr, M.M. Noor, Mr, Muhammad Yusri and **Dr, Ahmad Fitri Yusop**, 2016, "The effect of adding fusel oil to diesel

on the performance and emissions characteristics in single cylinder CI engine”, Journal of the Energy Institute, (ISI Impact Factor: 0.615).

18. Gholamhassan Najafi, **Ahmad Fitri Yusop**, Rizalman Mamat and Mohd Hafizil Mat Yasin, 2016, “Potentials of Palm Oil as New Feedstock Oil for a Global Alternative Fuel: A Review”, Renewable & Sustainable Energy Reviews, (Under Review , ISI Impact Factor: 5.901).
19. Mohd Hafizil Mat Yasin, Rizalman Mamat, M.H. Ali, **Ahmad Fitri Yusop** and Amir Aziz, “INVESTIGATION ON COMBUSTION PARAMETERS OF PALM BIODIESEL OPERATING WITH A DIESEL ENGINE”, Journal of Mechanical Engineering and Sciences.
20. OI Awad, R Mamat, OM Ali, IM Yusri, AA Abdullah, **AF Yusop**, MM Noor, 2016, “The effect of adding fusel oil to diesel on the performance and the emissions characteristics in a single cylinder CI engine”, Journal of the Energy Institute.
21. OI Awad, R Mamat, MM Noor, TK Ibrahim, IM Yusri, **AF Yusop**, 2016, “The impacts of compression ratio on the performance and emissions of ice powered by oxygenated fuels: A review”, Journal of the Energy Institute.
22. MHM Yasin, R Mamat, **AF Yusop**, MH Ali, MI Izzudin, 2017, “Study of fuel inlet temperature variations on palm biodiesel operating with a diesel engine”, MATEC Web of Conferences 90, 01079.
23. IM Yusri, R Mamat, A Aziz, **AF Yusop**, OI Awad, SM Rosdi, 2017, “Investigation of emissions characteristics of secondary butyl alcohol-gasoline blends in a port fuel injection spark ignition engine”, MATEC Web of Conferences 90, 01036.
24. Omar I.Awad, RizalmanMamat, Obed M.Ali, I.M.Yusri, A.A.Abdullah, **A.F.Yusop**, M.M.Noar, 2017, “The effect of adding fusel oil to diesel on the performance and the emissions characteristics in a single cylinder CI engine”, Journal of the Energy Institute, Volume 90, Issue 3, June 2017, Pages 382-396.
25. M. H. Mat Yasin, R. Mamat, G. Najafi, O. M. Ali, **A. F. Yusop**, and M. H. Ali, 2017, "Potentials of palm oil as new feedstock oil for a global alternative fuel: A review," Renewable and Sustainable Energy Reviews, vol. 79, pp. 1034-1049, 2017/11/01/ 2017.
26. I. M. Yusri, R. Mamat, **A. F. Yusop**, W. H. Azmi, O. Awad, and H. M. Yasin, 2017, "Investigation of Influences of Secondary Butyl-alcohol Blends on Performance and Cycle-to-cycle Variations in a Spark Ignition Engines," Energy Procedia, vol. 110, pp. 310-315, 2017/03/01/ 2017.
27. M. H. M. Yasin, R. Mamat, **A. F. Yusop**, D. M. N. D. Idris, T. Yusaf, M. Rasul, et al., 2017, "Study of a Diesel Engine Performance with Exhaust Gas Recirculation (EGR) System Fuelled with Palm Biodiesel," Energy Procedia, vol. 110, pp. 26-31, 2017/03/01/ 2017.
28. M. H. M. Yasin, R. Mamat, O. M. Ali, **A. F. Yusop**, M. A. Hamidi, M. Y. Ismail, et al., 2017, "Study of Diesel-biodiesel Fuel Properties and Wavelet Analysis on Cyclic Variations in a Diesel Engine," Energy Procedia, vol. 110, pp. 498-503, 2017/03/01/ 2017.
29. OI Awad, R Mamat, MM Noor, TK Ibrahim, IM Yusri, **A.F. Yusop**, 2018 “The impacts of compression ratio on the performance and emissions of ice powered by oxygenated fuels: A review”, Journal of the Energy Institute 91 (1), 19-32.
30. **AF Yusop**, R Mamat, T Yusaf, G Najafi, MHM Yasin, AM Khathri, 2018, ” Analysis of Particulate Matter (PM) Emissions in Diesel Engines Using Palm Oil Biodiesel Blended with Diesel Fuel”, Energies 11 (5), 1-25.
31. Omar I Awad, R Mamat, Thamir K Ibrahim, Ali Thaeer Hammid, IM Yusri, Mohd Adnin Hamidi, Ali M Humada, **AF Yusop**, 2018, “Overview of the oxygenated fuels in spark ignition engine: Environmental and performance”, Renewable and Sustainable Energy Reviews 91, 394-408.

List of Training / Course / Conference / Seminar Attended

Date	Programs	Status
5 - 6 Oct 2011	Attended the course on Research Methodology & Research Publications at Universiti Malaysia Pahang	Participant
25 April 2012	Technical Writing by PM Dr. Mustafizur Rahman	Participant
22-24 May 2012	Technical Writing Course/ Workshop at CENFED UMP	Participant
27-28 March 2012	Creation, Innovation, Technology & Research Exposition (CITREX 2012) (Electrostatic Charging for Reducing Particulate Matter from Automobile Exhaust Gas)	Exhibitor (Bronze Medal)
21 February 2012	GC Seminar at Auditorium Room, UMP Library	Participant
27-28 March 2013	Creation, Innovation, Technology & Research Exposition (CITREX 2013) (Particulate Matter (PM) Reduction Technology in Diesel Engine using Electrostatic Precipitator (ESP))	Exhibitor (Bronze Medal)
1 Dec 2013 – 28 Feb 2014	Attachment Program in Hochschule Karlsruhe – Technik und Wirtschaft, University of Applied Sciences (Karlsruhe, Germany) for 3 months	Attachment
7-8 March 2016	Creation, Innovation, Technology & Research Exposition (CITREX 2016) (LOOSEN PALM FRUIT PRICKER)	Exhibitor
7-8 March 2016	Creation, Innovation, Technology & Research Exposition (CITREX 2016) (Mengkuang Leaf Cutter)	Exhibitor (Bronze Medal)
March 2018	Creation, Innovation, Technology & Research Exposition (CITREX 2016) (Portable Motorcycle Chassis Dynamometer)	Exhibitor (Gold Medal)

List of Grants

Type of Grant	Title	Status
RDU1603100 (Internal Grant)	Investigation on Performance and Emission of Biodiesel/methanol/water blends (25/06/2016 - 24/06/2018)	Members (RM26,500.00)
RDU160139 (FRGS Grant)	Tooth Bending Strength of Thin-rimmed Spur Gears with Variable Rim and Web Design (01/08/2016 - 31/07/2019)	Members (RM108,400.00)
RDU160343 (Internal Grant)	The development of intelligent drive system for trajectory tracking applications (25/05/2016 - 24/05/2018)	Members (RM23,300.00)
RDU160373 (Internal Grant)	Enhancing Performance and Emission on a Turbocharged Gasoline Engine (15/06/2016 - 14/06/2018)	Members (RM27,800.00)
RDU160138 (FRGS Grant)	Investigation on Electric Motor as an Actuator of Anti Skid Control System to Improve the Safety of Small Electric Vehicle (01/08/2016 - 31/07/2019)	Members (RM93,000.00)
RDU1603107 (Internal Grant)	Performance of Nano Particle Bases Diesel Blends on Combustion Characteristics, Performance and Exhaust Emission (25/06/2016 - 24/06/2018)	Members (RM30,500.00)
RDU1603111 (Internal Grant)	Development of Portable Chassis Dynamometer for Battery Powered Motorcycle (25/06/2016 - 24/06/2018)	Members (RM31,050.00)
RDU151113 (Internal Grant)	Controlling Particulate Matter (PM) Emissions on Engine Testing by the used of the Application of New Energy Sources, including Biodiesel Fuel (1 Oct 2015 – 30 Sept 2016)	Leader (RM5000.00)
UIC150307 (Pre-Commercialization)	Mengkuang Leaf Cutter Machine (31 Dec 2015- 30 Dec 2018)	Leader (RM26,000.00)
RDU160309 (Internal Grant)	Influence of using emulsified palm biodiesel fuel on the performance and pollutants emitted from diesel engine. (05/04/2016 - 04/04/2018)	Leader (RM25,000.00)

RDU1603126 (Internal Grant)	Improved Oxygenated Combustion through Alcohol Additive Dilution Approach on a Diesel Engine for Performance and Emission Enhancement. (05/10/2016 - 04/10/2018)	Leader (RM33,615.00)
RDU172204	Investigation On Thermal Management Of CI Engine Operating With Biofuel	Members (RM98,500.00)