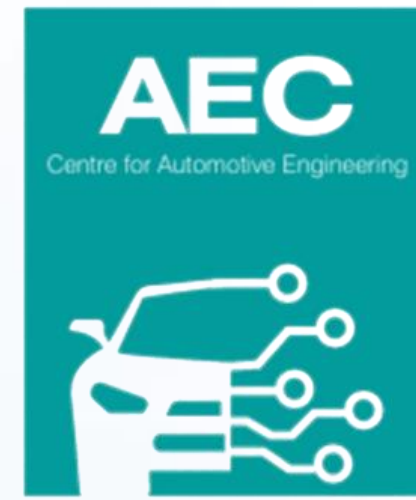




UNIVERSITI MALAYSIA PAHANG
AL-SULTAN ABDULLAH

AEC

Centre for Automotive
Engineering



PUSAT KEJURUTERAAN AUTOMOTIF UNIVERSITI MALAYSIA PAHANG AL-SULTAN ABDULLAH



UMPSAMalaysia
www.umpsa.edu.my

**TEKNOLOGI
UNTUK
MASYARAKAT**



INTRODUCTION



UNIVERSITI MALAYSIA PAHANG
AL-SULTAN ABDULLAH

AEC
Centre for Automotive
Engineering



Vision

Aspiring to be a reputable automotive research center internationally

Mission

To develop innovative automotive technology that contributes to the advancement of industry and community

Objective

- To establish research collaborations with reputable automotive research center and industries.
- To increase the number of highly talented researchers.
- To produce innovative technologies in order to serve the automotive industry.
- To produce high quality postgraduates.
- To publish high impact publications.

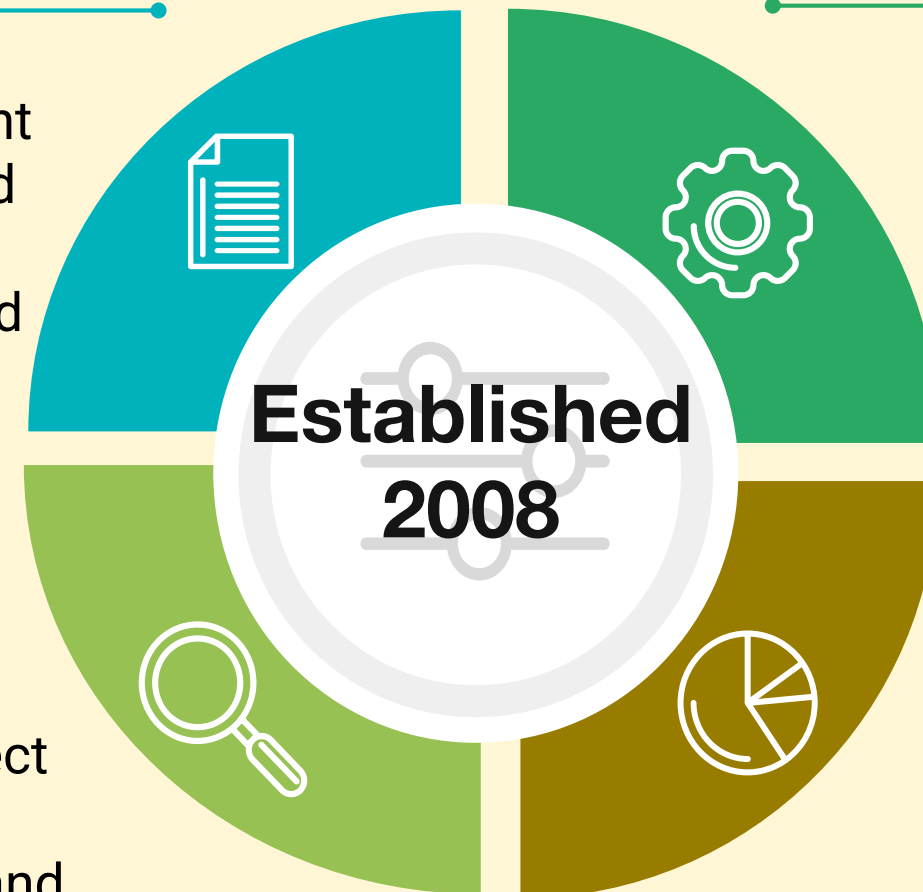
SCOPE & FUNCTION

TRAINING & CONFERENCE

- Training Hub for Automotive Management and Autonomous, Hybrid and Electric Vehicle
- Organize conference and seminar package.

INDUSTRY RELATION

- Offer collaboration and expertise in related project and program
- Secure Matching Grant and establish relation with industry



TECHNICAL SERVICE & CONSULTANCY

- Offer automotive technical service and laboratory analysis to industries / agencies
- Provide consultancy and technical expert related.

RESEARCH & PUBLICATION

- Secure National and International Grant
- Publication, Innovation and Commercialization product

EXPERTISE



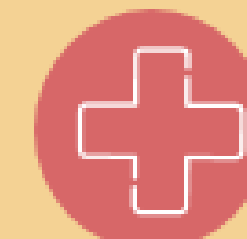
Vehicle Service & Maintenance Management



Advanced Fluid Properties

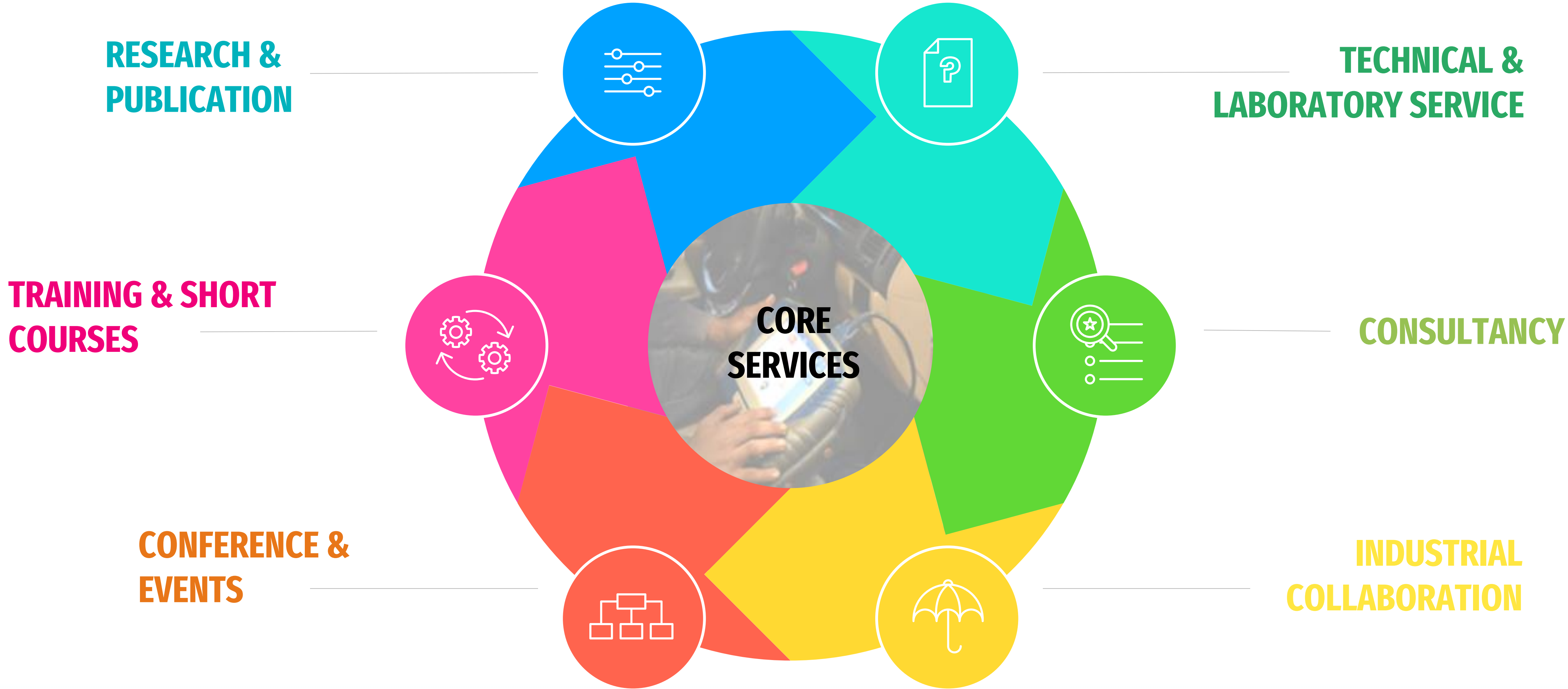


Acoustic, Noise & Vibration



Autonomous, Hybrid and Electric Vehicle Development

CORE SERVICES



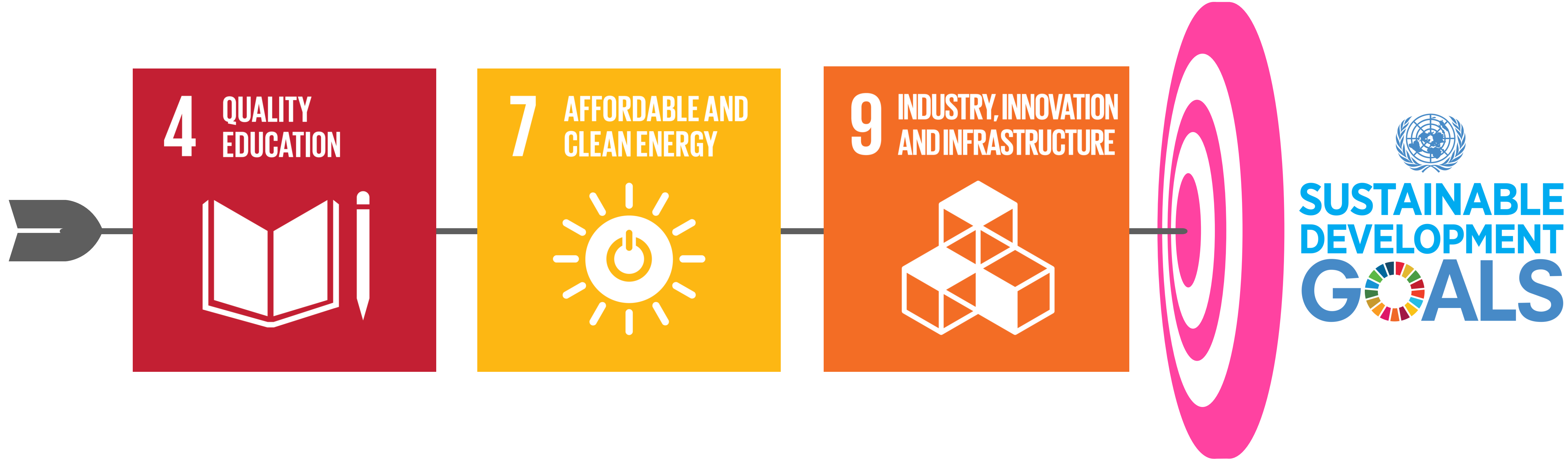
SUSTAINABLE DEVELOPMENT GOALS



UNIVERSITI MALAYSIA PAHANG
AL-SULTAN ABDULLAH

AEC

Centre for Automotive
Engineering



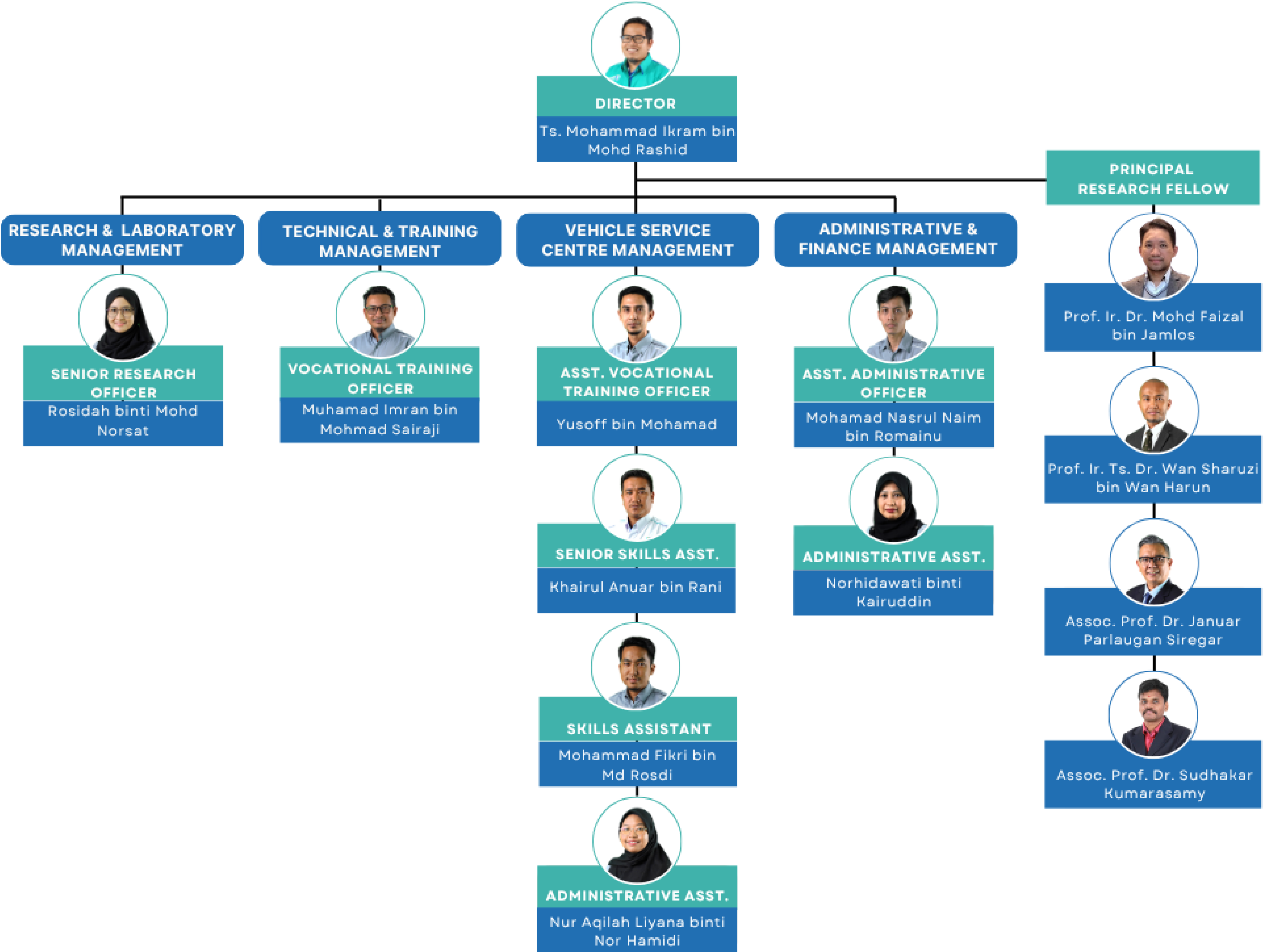
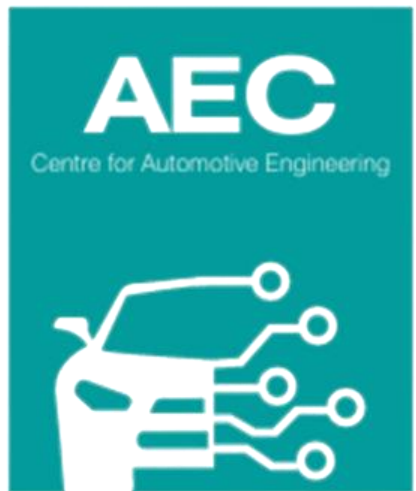
ORGANIZATION CHART



UNIVERSITI MALAYSIA PAHANG
AL-SULTAN ABDULLAH

AEC

Centre for Automotive
Engineering



****updated June 2025**

TECHNICAL & LABORATORY SERVICES

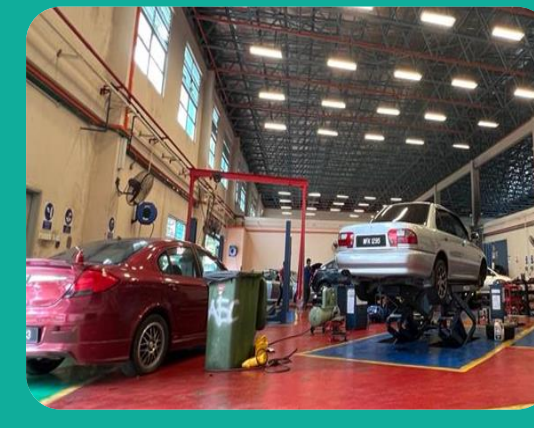


UNIVERSITI MALAYSIA PAHANG
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Centre for Automotive
Engineering



Automotive Services Centre



- Provide most convenient and reasonable price for Vehicle Services and Repair Facilities
- As a reference point for car servicing and repair for staffs and students (free advice)
- Able to host industrial training students in the area of vehicle workshop management and servicing
- Information centre that link UMP researchers in the area of automotive engineering to the actual car servicing and repair in terms of the customer perspective and parts usages and viability

TECHNICAL & LABORATORY SERVICES



UNIVERSITI MALAYSIA PAHANG
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Centre for Automotive
Engineering



Advanced Fluid Properties Laboratory



Provide most convenience, accurate, and reasonable price for fluid, fuel, oil, lubricant testing services.

List of equipment available for testing as follows:

- UV-VIS Spectrophotometer
- Thermal Conductivity Analyzer (C-Therm Technologies TCi-3-A)
- Zeta Potential & Zeta Sizer (Lite Sizer 500)
- Bomb Calorimeter
- Digital Viscometer (Rotational Rheometer RheolabQC)
- Kinematic Viscometer
- Cetane Analyzer (ASTM D7668)
- High Speed Camera (nac MEMRECAM HX-7s)
- Gas Analyzer
- Smoke Analyzer



TECHNICAL & LABORATORY SERVICES



UNIVERSITI MALAYSIA PAHANG
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Autonomous Vehicle Laboratory

**Autonomous
Vehicle** . Laboratory



- AV Lab focuses on the development of the sensors solution for perception and tracking for an unmanned and autonomous system.
- Development autonomous system, custom algorithm programming and development for uneven vehicle mathematical terrain modelling.
- Offering technical service and consultancy in autonomous system, navigation system and programming for automotive / industrial application.
- Provide training on autonomous system, programming and sensor technology knowledge.

TECHNICAL & LABORATORY SERVICES



UNIVERSITI MALAYSIA PAHANG
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Engineering



Chassis Dynamometer & VGPS Test Car



For testing vehicle performance. Previous performance test project with SIRIM to determine performance of direct transmission lorry.

Features

- Vehicle performance test with capabilities exceed 1000 bhp (horsepower), 1500 Nm of torque
- 2 wheel drive of vehicle testing (front wheel drive and rear wheel drive)
- Portable system

TECHNICAL & LABORATORY SERVICES



UNIVERSITI MALAYSIA PAHANG
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Acoustic, Noise and Vibration Facilities



Offering technical service and consultancy in automotive / industrial noise and vibration.

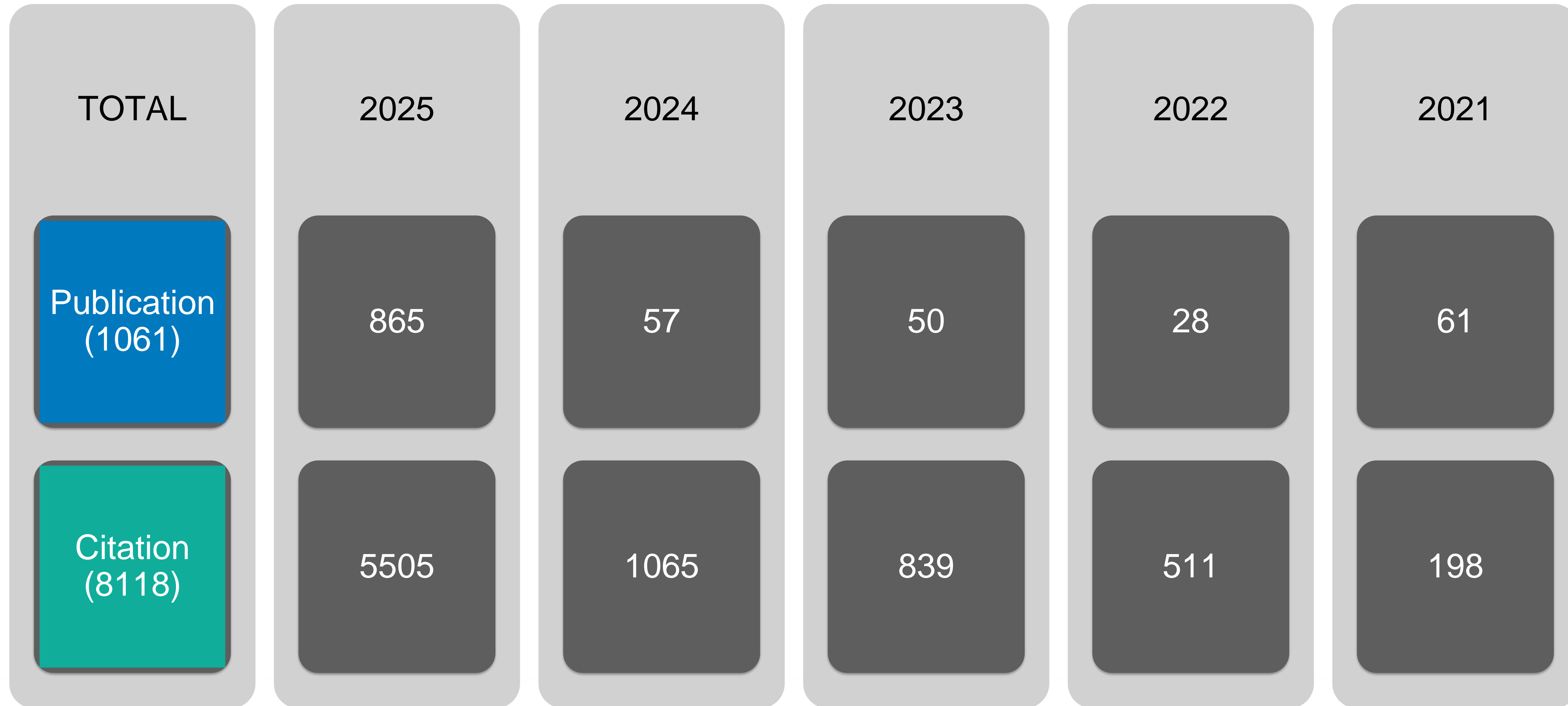
PUBLICATIONS & CITATIONS (5 YEARS)



UNIVERSITI MALAYSIA PAHANG
AL-SULTAN ABDULLAH

AEC

Centre for Automotive
Engineering



RESEARCH GRANTS



APPROVED GRANTS UNDER AEC (until June 2025)

UMPSA		NATIONAL		INDUSTRY		INTERNATIONAL		TOTAL	
NUM	AMOUNT	NUM	AMOUNT	NUM	AMOUNT	NUM	AMOUNT	NUM	AMOUNT
198	RM6,377,672.92	37	RM5,367,664.28	6	RM777,270.00	1	RM18,500.00	242	RM12,541,107.20

ACTIVE GRANTS UNDER AEC (until June 2025)

UMPSA		NATIONAL		INDUSTRY		INTERNATIONAL		TOTAL	
NUM	AMOUNT	NUM	AMOUNT	NUM	AMOUNT	NUM	AMOUNT	NUM	AMOUNT
10	RM350,320.00	2	RM233,300.00	5	RM794,270	1	RM18,500	18	RM1,396,390.00

RESEARCH GRANTS

APPROVED GRANTS PRINCIPLE FELLOWS (until June 2025)

UMPSA		NATIONAL		INDUSTRY		INTERNATIONAL		TOTAL	
NUM	AMOUNT	NUM	AMOUNT	NUM	AMOUNT	NUM	AMOUNT	NUM	AMOUNT
63	RM2,522,900.00	10	RM905,930.00	8	RM1,415,000.00	4	RM505,502.40	85	RM5,349,332.40

ACTIVE GRANTS PRINCIPLE FELLOWS (until June 2025)

UMPSA		NATIONAL		INDUSTRY		INTERNATIONAL		TOTAL	
NUM	AMOUNT	NUM	AMOUNT	NUM	AMOUNT	NUM	AMOUNT	NUM	AMOUNT
7	RM218,850.00	1	RM163,260.00	1	RM15,000.00	4	RM599,270.00	13	RM996,380.00

TRAINING & SEMINAR



UNIVERSITI MALAYSIA PAHANG
AL-SULTAN ABDULLAH

AEC
Centre for Automotive
Engineering



Centre for Automotive Engineering
Pusat Kejuruteraan Automotif

OFF-GRID PV SYSTEM TRAINING

JUNE 25, 2025
UMPSA, PEKAN
08:00A.M - 05:00P.M

SPEAKER
TS. MUHAMMAD IKRAM BIN MOHD RASHID

SPEAKER
PROF. IR. DR MOHD FAIZAL BIN JAMLOS

STUDENTS RM 100 RM 50	UMPSA STAFF RM 200 RM 100	OTHERS RM 400 RM 250
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EXPECTED OUTPUT:
Candidate should be able to design and install the system (off-grid photovoltaic)

TRAINING OPEN TO:

- Students
- Academician
- Researcher
- Scientist
- Engineer

NOTE

- Certificate of Attendance
- No accommodations provided

Registration & queries :

- En Nasrul (018-9147805)
- Pn. Rosidah (019-265 5996)
- En. Imran (011-3770 4115)

Fee & Cancellation

• Cancellation of participation 7 days before the program: Organizing costs will be deducted from the participant's fee

• Cancellation during the day of the program: No fee refunds are given



Centre for Automotive Engineering
Pusat Kejuruteraan Automotif

Scientific Writing Workshop for HIGH IMPACT JOURNAL

JULY 31, 2025
BILIK LATIHAN PKA, UMPSA PEKAN
8:00 AM - 5:00 PM

SPEAKER
PROF. DR. WAN AZMI BIN WAN HAMZAH

SPEAKER
PROF. DR. RIZALMAN BIN MAMAT

STUDENTS RM 100 RM 50	UMPSA STAFF RM 200 RM 100	OTHERS RM 400 RM 250
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OPEN TO :

- Students
- Academician
- Researcher
- Scientist
- Engineer

NOTE :

- Certificate
- Coffee / Tea Break & Lunch provided
- No accommodations provided

Inquiry :

- Mr. Nasrul(018 - 914 7805)
- Mrs. Rosidah (019-265 5996)
- En. Imran (011-3770 4115)

Fee & Cancellation

• Cancellation of participation 7 days before the program: Organizing costs will be deducted from the participant's fee

• Cancellation during the day of the program: No fee refunds are given



Centre for Automotive Engineering
Pusat Kejuruteraan Automotif

HANDS - ON TRAINING ON ELECTRIC VEHICLE

25 SEPTEMBER, 2025
AEC UMPSA, PEKAN
08:00A.M - 05:00P.M

SPEAKER
TS. DR MUHAMMAD IKRAM BIN MOHD RASHID

SPEAKER
PROF DR. RIZALMAN BIN MAMAT

STUDENTS RM 100 RM 50	UMPSA STAFF RM 200 RM 100	OTHERS RM 400 RM 250
------------------------------------	--	-----------------------------------

TRAINING CONTENT :

- Introduction to EV
- Safety concern EV
- Hands-on EV design & installation

TRAINING OPEN TO:

- Students
- Academician
- Researcher
- Scientist
- Engineer

NOTE

- Certificate of Attendance
- No accommodations provided

BEST DEAL!! REGISTER NOW!

Registration & queries :

- En Nasrul (018-9147805)
- Pn. Rosidah (019-265 5996)
- En. Imran (011-3770 4115)

Fee & Cancellation

• Cancellation of participation 7 days before the program: Organizing costs will be deducted from the participant's fee

• Cancellation during the day of the program: No fee refunds are given



TRAINING & SEMINAR



UNIVERSITI MALAYSIA PAHANG
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Engineering



Centre for Automotive Engineering
Pusat Kejuruteraan Automotif



Unlocking Route A: Your Guide to Becoming a Professional Engineer via Outcome-Based PAE

TO BE ANNOUNCED
UMPSA PEKAN
8:30 AM - 4:30 PM

SPEAKER
PROF. MADYA IR. TS. DR. WAN SHARUZI
BIN WAN HARUN

STUDENTS	UMPSA STAFF	OTHERS
RM50	RM100	RM250

USER GAIN	TRAINING OPEN TO	NOTE
<ul style="list-style-type: none"> Route to Professional Engineer Step by step guide Planning and documentation preparation 	<ul style="list-style-type: none"> Students Academician Researcher Scientist Engineer 	<ul style="list-style-type: none"> Certificate of Attendance No accommodations provided Coffee / Tea Break & Lunch provided

Registration :

Fee & Cancellation

- Cancellation of participation 7 days before the program. Organizing costs will be deducted from the participant's fee.
- Cancellation during the day of the program. No fee refunds are given.

Inquiry:

- Mr Nasrul (018-9147805)
- Mrs. Rosidah (019-265 5996)

Centre for Automotive Engineering
Pusat Kejuruteraan Automotif



CHARGING STATION INSTALLATION MAINTENANCE FOR ELECTRIC VEHICLES

TO BE ANNOUNCED
AEC UMPSA , PEKAN
08:00 A.M - 05:00 P.M

SPEAKER
TS. MUHAMMAD IKRAM

STUDENTS	UMPSA STAFF	OTHERS
RM50	RM100	RM250

TRAINING CONTENT	OPEN TO:	NOTE
<ul style="list-style-type: none"> Theory and concept of EV Simulation software of EV Presentation of papers on technologies and research findings 	<ul style="list-style-type: none"> Students Academician Researcher Scientist Engineer 	<ul style="list-style-type: none"> Certificate of Attendance Breakfast, lunch, & coffee break provided No accommodations provided

Registration & queries :

- En Nasrul (018-914 7805)
- Pn. Rosidah (019-265 5996)
- En. Imran (011-3770 4115)

Fee & Cancellation

- Cancellation of participation 7 days before the program. Organizing costs will be deducted from the participant's fee.
- Cancellation during the day of the program. No fee refunds are given.

Centre for Automotive Engineering
Pusat Kejuruteraan Automotif



SOLAR PV SYSTEMS DESIGN AND SIMULATIONS

TO BE ANNOUNCED
AEC UMPSA , PEKAN
08:30 A.M - 04:30 P.M

SPEAKER
PROFESOR MADYA DR.
SUDHAKAR KUMARASAMY

STUDENTS	UMPSA STAFF	OTHERS
RM100 RM50	RM200 RM100	RM400 RM250

TRAINING CONTENT	OPEN TO:	NOTE
<ul style="list-style-type: none"> Theory and concept of PV Simulation software of solar PV Presentation of papers on technologies and research findings 	<ul style="list-style-type: none"> Students Academician Researcher Scientist Engineer 	<ul style="list-style-type: none"> Certificate of Attendance Breakfast, lunch, & coffee break provided No accommodations provided

Registration & queries :

- En Nasrul (018-9147805)
- Pn. Rosidah (019-265 5996)
- En. Imran (011-3770 4115)

Fee & Cancellation

- Cancellation of participation 7 days before the program. Organizing costs will be deducted from the participant's fee.
- Cancellation during the day of the program. No fee refunds are given.



**BEST DEAL!!
REGISTER NOW!**

TRAINING & SEMINAR



UNIVERSITI MALAYSIA PAHANG
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Engineering






INTRODUCTION TO THE HRDF TRAINER ACCREDITATION PATHWAY

SPEAKER : PROFESOR MADYA TS. DR. AMIR BIN ABDUL RAZAK

Open to :

- Students
- Scientist
- Academician
- Engineer
- Researcher

23 AUGUST 2025

09:00 TO 12:30

AEC UMPSA, PEKAN

STUDENTS
RM100
RM50

UMPSA STAFF
RM200
RM100

OTHERS
RM400
RM250

Fee & Cancellation

- Cancellation of participation 7 days before the program: Organizing costs will be deducted from the participant's fee
- Cancellation during the day of the program: No fee refunds

REGISTRATION

MR. NASRUL (018-9147805)
MRS. ROSIDAH (019-265 5996)
MR. IMRAN (011-3770-4115)

INQUIRY

MR. NASRUL (018-9147805)
MRS. ROSIDAH (019-265 5996)
MR. IMRAN (011-3770-4115)



Centre for Automotive Engineering
Pusat Kejuruteraan Automotif

OPTIMIZATION USING INTELLIGENCE APPROACHES



SEP 9, 2025

AEC UMPSA , PEKAN

08:00 A.M - 05:00 P.M

SPEAKER
PROF. MADYA DR. MOHD FADZIL FAISAE

STUDENTS RM50	UMPSA STAFF RM100	OTHERS RM250
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TRAINING CONTENT

- Theory and concept of IA
- Simulation software of solar IA
- Presentation of papers on technologies and research findings

OPEN TO:

- Students
- Academician
- Researcher
- Scientist
- Engineer

NOTE

- Certificate of Attendance
- Breakfast, lunch, & coffee break provided
- No accommodations provided

Registration & queries :

- En Nasrul (018-914 7805)
- Pn. Rosidah (019-265 5996)
- En. Imran (011-3770 4115)

Fee & Cancellation

- Cancellation of participation 7 days before the program: Organizing costs will be deducted from the participant's fee
- Cancellation during the day of the program: No fee refunds



Centre for Automotive Engineering
Pusat Kejuruteraan Automotif



HEADLAMP RESTORATION & SPORT RIM REPAINTING TRAINING

OPEN FOR STUDENT ONLY!

TO BE ANNOUNCED

AEC SERVICE CENTRE UMPSA , PEKAN

08:00 A.M - 05:00 P.M



SPEAKER
SAMURAI 2K AEROSOL SDN. BHD.

COURSE FEE :
STUDENTS
RM30

REGISTER HERE



TRAINING CONTENT :

- Theory and concept of aerosol spray painting
- Aerosol spray painting technique
- Preliminary preparation steps before painting
- Demonstration and practical session on headlamp polishing technique

OPEN TO :

- Students
- Technician
- Academician
- Researcher
- Engineer

Registration & queries :

- En. Imran (011-3770 4115)
- En. Nasrul (018-9147805)
- Pn. Rosidah (019-265 5996)

Fee & Cancellation

- Cancellation of participation 7 days before the program: Organizing costs will be deducted from the participant's fee
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CONFERENCE EVENT



UNIVERSITI MALAYSIA PAHANG
AL-SULTAN ABDULLAH

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Engineering



2014

2016

2018

2020

2022

2024

AIGEV 2014 International Conference on Automotive Innovation and Green Energy Vehicle
26 - 27 AUGUST 2014
FREE GIFT

CONFERENCE TOPICS:

- Advanced Manufacturing in Automotive Industries
- Alternative Energy & Fuel
- Automotive Design
- Automotive Mechanatics
- Computational & Simulation Methods in Automotive Applications
- Experimental Mechanics
- Fuel & Combustion
- Green Energy Technology
- Hybrid & Electric Vehicle
- Materials Characterisation
- Mathematical Modelling & Optimisation in Automotive Applications
- Noise, Vibration & Harshness
- Safety, Comfort & Ergonomics
- Signal Processing & Automotive Electronics
- Standards, Policies & Regulations
- Traffic & Transport
- Vehicle Dynamics & Control

Power Bank + Thumb Drive

FEES:

	Local	International
Presenter (Early Bird)	RM1100	USD400
Presenter (Self Publication)	RM1300	USD450
Presenter (Without Publication)	RM1100	USD400
Participant	RM900	USD300
Student	RM500	USD150

CONTACT US
Secretariat(AIGEV2014)
Automotive Engineering Centre
Universiti Malaysia Pahang
26400 Pekan, Pahang, MALAYSIA
Email : aigev2014@gmail.com
Website : http://aigev.ump.edu.my

2016 2nd INTERNATIONAL CONFERENCE
26 - 27 AUGUST 2016
FREE GIFT

MAI, CYBERJAYA, MALAYSIA
AUGUST 2-3, 2016

FEES:

	Local	International
Presenter	1500 MYR / 500 USD	500 USD
Student	1100 MYR / 400 USD	400 USD
Participant	900 MYR / 300 USD	300 USD

CONTACT US
Secretariat AIGEV 2016
Automotive Engineering Centre
Universiti Malaysia Pahang
aigev2016@gmail.com
http://aigev.ump.edu.my

AIGEV 2018 3rd International Conference on Automotive Innovation and Green Energy Vehicle
25-26 July 2018 (Wednesday & Thursday)
Kuantan, Pahang, MALAYSIA

Technical Areas:

- Advanced Manufacturing in Automotive Industries
- Alternative Energy & Fuel
- Automotive Design
- Automotive Mechanatics
- Computational & Simulation Methods in Automotive Applications
- Experimental Mechanics
- Fuel & Combustion
- Green Energy Technology
- Hybrid & Electric Vehicle
- Materials Characterisation
- Mathematical Modelling & Optimization in Automotive Applications
- Noise, Vibration & Harshness
- Safety, Comfort & Ergonomics
- Signal Processing & Automotive Electronics
- Standards, Policies & Regulations
- Traffic & Transport
- Vehicle Dynamics & Control
- Other Related Topics in Automotive & Mechanical Engineering

CONTACT US
Secretariat AIGEV 2018
Automotive Engineering Centre
Universiti Malaysia Pahang
26600 Pekan, Pahang, MALAYSIA
Phone: +609 424 6344 / 6289
Email: aigev2018@gmail.com
Portal: aigev.ump.edu.my

AIGEV 2020 4th International Conference on Automotive Innovation and Green Energy Vehicle
10-11 November 2020
UNIVERSITI MALAYSIA PAHANG

Research Areas:

- Connected & Automated Vehicles (CAVs)
- Materials & Manufacturing Technologies
- Tribology, Fuels & Combustion Engines
- Automotive Mechanatics & Embedded Systems
- Internet of Things (IoT)
- Emerging Energy Technologies
- Big Data, Artificial Intelligence, Machine Learning & Deep Learning
- System Modelling & Optimization
- Environmental & Human Engineering
- Standards, Policies & Regulations

CONTACT US
Automotive Engineering Centre
Universiti Malaysia Pahang
26600 Pekan, Pahang, MALAYSIA
Phone: +609 424 6344 / 6289
Email: aigev2020@gmail.com
Portal: aigev.ump.edu.my

AIGEV 2022 5th International Conference on Automotive Innovation and Green Energy Vehicle
5 - 6 DECEMBER 2022
HOLIDAY VILLA BEACH RESORT & SPA, LANGKAWI, MALAYSIA

FIELD:

- Automotive and Mechanical Engineering
- Material Science and Engineering
- Manufacturing and Industrial Engineering
- Renewable and Green Engineering
- Sustainable and Environmental Engineering
- Electric Vehicle and Power Engineering
- Artificial Intelligence and Nano Engineering

CONTACT
Secretariat AIGEV 2022
Centre for Automotive Engineering
Universiti Malaysia Pahang
26000 Pekan, Pahang, MALAYSIA
Tel: +609 431 6852 / 012 6291 332
Email: aigev@ump.edu.my
FB Page: AIGEV2022
Website: http://aigev.ump.edu.my

AIGEV 2024 6th International Conference on Automotive Innovation and Green Energy Vehicle
16 - 18 SEPTEMBER 2024, THE EVERLY HOTEL, PUTRAJAYA, MALAYSIA

FIELD:

- Automotive and Mechanical Engineering
- Material Science and Engineering
- Manufacturing and Industrial Engineering
- Renewable and Green Engineering
- Sustainable and Environmental Engineering
- Electric Vehicle and Power Engineering
- Artificial Intelligence and Nano Engineering

CONTACT
Secretariat AIGEV 2024
Centre for Automotive Engineering
Universiti Malaysia Pahang
26000 Pekan, Pahang, MALAYSIA
Tel: +609 431 6852 / 012 6291 332
Email: aigev@ump.edu.my
FB Page: AIGEV2024
Website: http://aigev.ump.edu.my

2026

IN PROGRESS

RESEARCH COLLABORATION PROJECT: SMART CAMPUS AUTONOMOUS VEHICLE (SCAV)



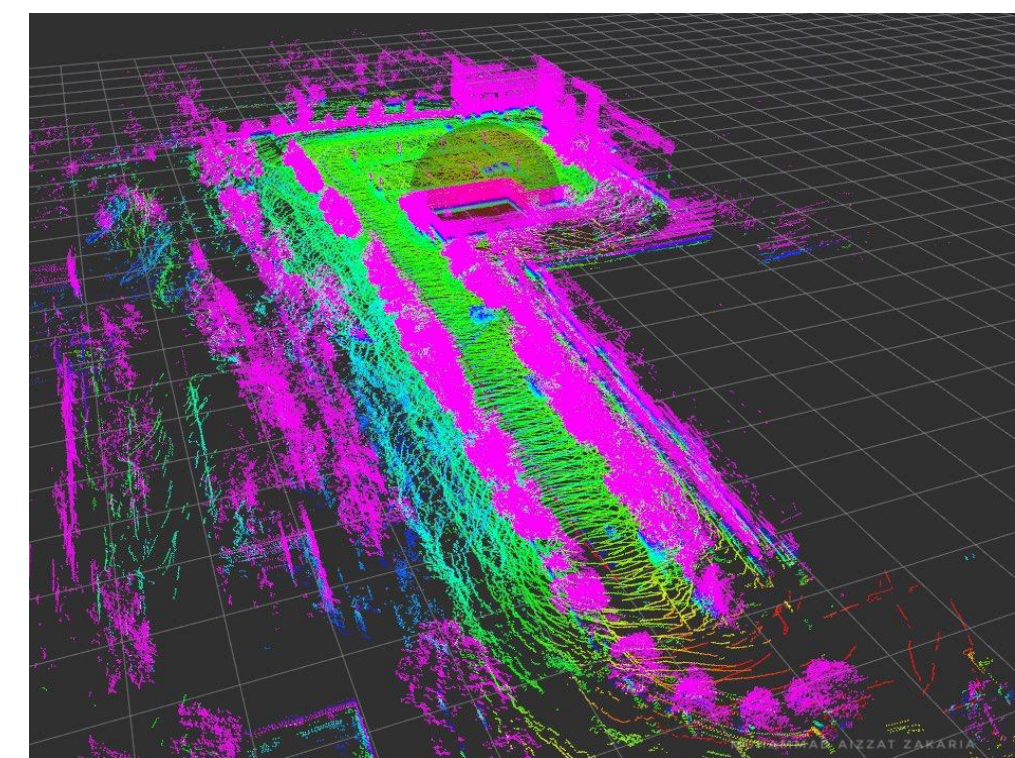
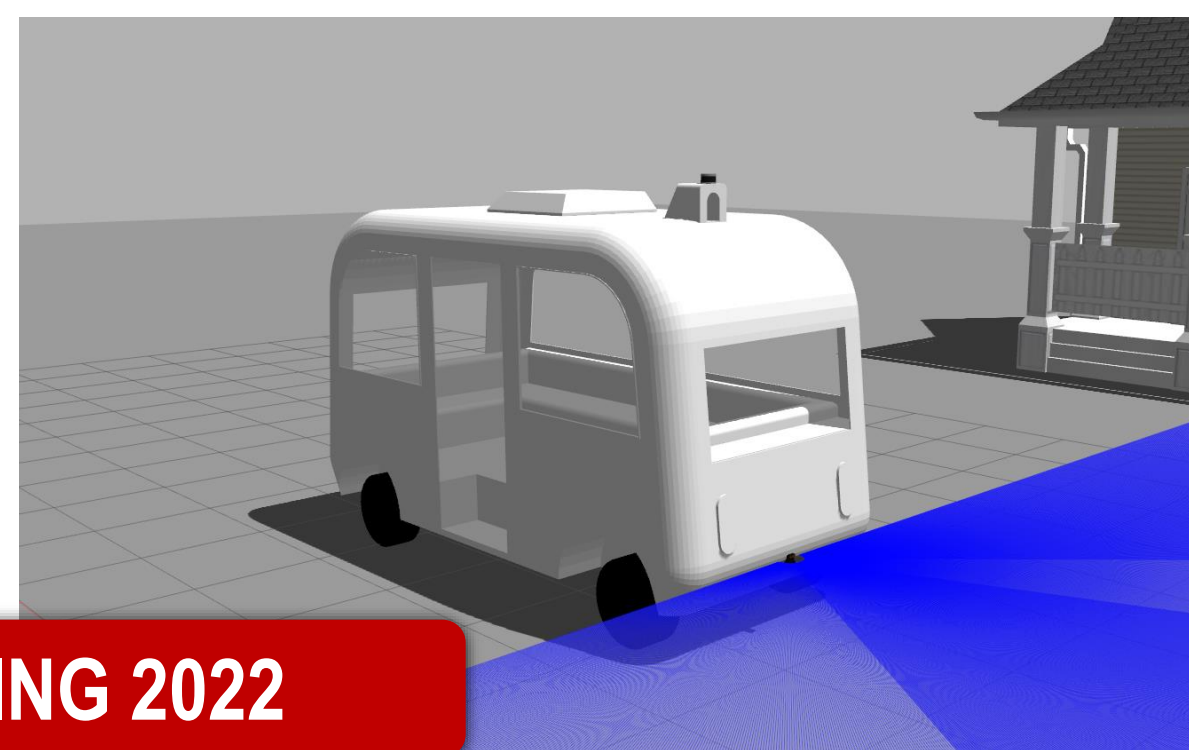
UNIVERSITI MALAYSIA PAHANG
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Autonomous
Vehicle Laboratory



ON GOING 2022



Abdul Aziz (lima dari kiri) serta kumpulan penyelidik UMP menunjukkan bas pintar SCAV yang dibangunkan.

The objective of the laboratory is to accelerate the fundamental and applied R&D related to the autonomous technology in Malaysia.

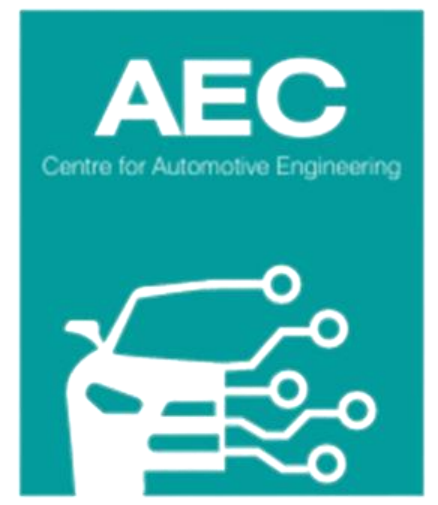
One of the flagship project is the **Smart Campus Autonomous Vehicle (SCAV)** which is under continuous development for prototyping and research.

Research members of the laboratory is from different background to accommodate the AV's vast fields.

RESEARCH COLLABORATION PROJECT : AUTONOMOUS MODULE (DREBAR)



UNIVERSITI MALAYSIA PAHANG
AL-SULTAN ABDULLAH



Autonomous
Vehicle Laboratory

drebar™
Drebar box solution



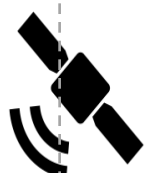
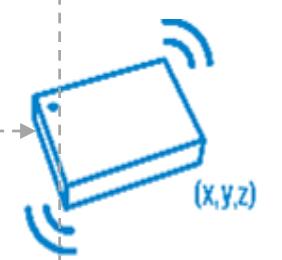
Incremental
Encoder



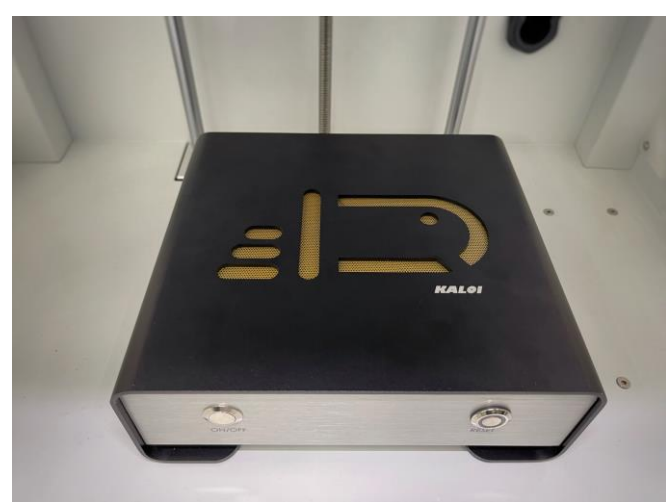
Absolute Encoder



LIDAR Sensor



GPS



RM20k Industrial Cost | RM8k
UMP Cost
(with comparable performance)

UNMANNED BOAT



FORKLIFT :
TEACHING FACTORY



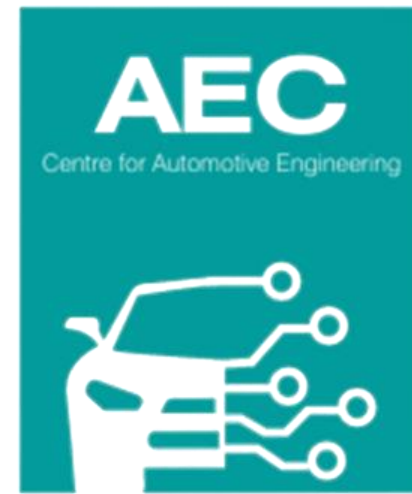
UNEVEN TERRAIN
NAVIGATION



RESEARCH COLLABORATION PROJECT: VEHICLE DATA RECORDING



UNIVERSITI MALAYSIA PAHANG
AL-SULTAN ABDULLAH



INDUSTRIAL
COLLABORATION



Developing one working prototype
for vehicle event data recorder and
forensic data preservation.

ON GOING 2023



INDUSTRIAL COLLABORATION



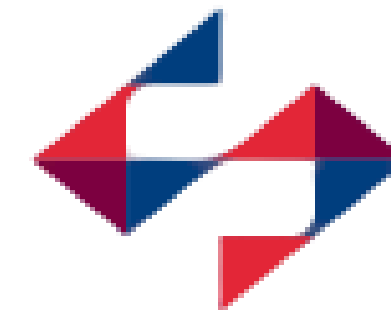
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