



HILMI BIN AMIRUDDIN

Faculty of Mechanical Engineering
Universiti Teknikal Malaysia Melaka
Hang Tuah Jaya, 76100 Durian Tunggal
Melaka, Malaysia
Phone: +606 234 6714
E-mail: hilmi@utem.edu.my

Scopus: <https://www.scopus.com/authid/detail.url?authorId=56100053000>
Google Scholar: <https://scholar.google.com/citations?user=BmEQuHEAAAAJ&hl>
ResearchGate: https://www.researchgate.net/profile/Hilmi_Amiruddin
Google Scholar h-index: 4

Education

- **M.Sc. Automotive Engineering** (2006).
- **B.Eng. (Mechanical-Automotive)** (2003).

Field of Specialization

Engine Performance, Automotive Performance, Automotive Tribology and Energy.

Professional Experiences

Mechanical Engineer (2002 –2004) - NEC Machinery (M) Sdn. Bhd., Shah Alam, Selangor.

Teaching

Internal Combustion Engine, Automotive Design, Automotive Technology, Vehicle Electrical System and Engineering Graphic.

Postgraduate Supervision

Co-Supervision – 1 Student - Master by Research.

Consultation & Community Service

KKTM, Kuantan (2007 -2008) – Automotive Lab Set-Up.

KKTM, Kuantan (2013) – Automotive Module.

MRSM Tun Ghafar Baba (2012) – SolidWorks.

Selected Professional Appointments

- **Member of Publicity & Media Bureau Committee** (2016 - 2018) – Malaysian Tribology Society.
- **Vice Treasurer** (2015) – Malaysian International Tribology Conference (MITC) 2015.
- **Member of Certificates & Awards Committee** (2014) – Malaysian Technical Universities Conference on Engineering and Technology (MUCET) 2014.
- **Team Leader for EV Development** (2012) – Proton Green Mobility Challenge (PGMC) 2012.
- **Chairman** (2012) – **Perodua Eco-Challenge** (PEC) 2012.

Selected Grants

- **TD-FRGS (RM 443,280)** – (Member) New Strategies For Energy Saving : The Future Focus On Energy Efficient Vehicles (EEV) In Malaysia, 2013 – 2015.
- **ERGS (RM 100,000)** – (Member) Comparative Study Of Tribological Behaviour Of New Palm Shell Activated Carbon Reinforced Aluminum Matrix Composite (PSAC-AI) In Different Environmental Conditions, 2013 – 2015.
- **RAGS (RM 68,000)** – (Member) Wear Characteristic Study of a New Eco-Lightweight Friction Material With Palm Oil Fiber Enrichment, 2013 - 2015.
- **PROTON & AIM (RM 41,000)** – (Member) Development EV for Proton Green Mobility Challenge (PGMC) 2012, 2012.
- **PJP (RM 20,000)** – (Leader) Influence of Nanolubricant on Tribological Performance, Emissions and Fuel Consumption of a Diesel Engine, 2012.

Selected Indexed Articles & Books

- Abdullah, M.I.H.C., Abdollah, M.F.B., **Amiruddin, H.**, Tamaldin, N and Mat Nuri, N.R., (2016). Effect of hexagonal boron nitride nanoparticles as an additive on the extreme pressure properties of engine oil. *Industrial Lubrication and Tribology*, In Press. (IF = 0.444, ISI Q4).
- Tahir, N.A.M., Abdollah, M.F.B., Hasan, R., & **Amiruddin, H.** (2016). The effect of sliding distance at different temperatures on the tribological properties of a palm kernel activated carbon-epoxy composite. *Tribology International*, 94, 352-359. (IF=1.936; ISI Q1).
- Mustafa, A., Abdollah, M.F.B., Shuhimi, F.F., Ismail, N., **Amiruddin, H.** & Umehara, N. (2015). Selection and verification of kenaf fibres as an alternative friction material using Weighted Decision Matrix method. *Materials & Design*, 67, 577-582. (IF=3.501; ISI Q1).
- **Hilmi Amiruddin** et al. (2015), *Buku Panduan Galas Datar (Terjemahan)*, Kuala Lumpur, Penerbitan Universiti Malaya. ISBN: 978-983-100-788-4.

Intellectual Properties

- **CRLY00001905** (Copyright) - Emerging Lubricant Technology For Ball Bearings (Granted).
- **CRLY00001906** (Copyright) - Nano-Oil For A Greener Future (Granted).

Selected Awards

- **Excellence Service Award** (2012) – UTeM.
- **Special Group Award – Perodua Eco-Challenge (PEC)** (2013) – AAU 2013.
- **Special Group Award – Proton Green Mobility Challenge (PGMC)** (2012) – AAU 2012.
- **Gold Award – Nano-Oil as Lubricant for Improving Small Diesel Engine Performance** (2013) – UTeMEX 2013.
- **BioInnovation Silver Award – Nano-Oil for a Greener Future** (2013) – BioMalaysia 2013.
- **Silver Award – Nano-Oil for a Greener Future** (2013) – Pecipta 2013.

Professional Affiliations

- **Board of Engineers Malaysia (BEM)** – Malaysia.
- **Malaysian Tribology Society (MYTRIBOS)** – Malaysia.
- **Society of Automotive Engineers (SAE)** – USA.