

Aviation Technology Research

TIER 5 – RESEARCH INITIATIVE GROUP (RIG)



| Name of RIG | : | Aviation Technology Research (ATR) |
|-------------------------------------|---|--|
| Registration Code | : | |
| Tier | : | 5 |
| Leader | : | Prof. Dr. Ir. Wahyu Kuntjoro |
| CoRe | : | Frontier Materials and Industrial Application (FMIA) |
| Registered Faculty | : | Mechanical Engineering |
| Registration date (Senate Approval) | : | |
| UiTM Niche Area | : | Transportation and Mobility |
| RIG Niche Area | : | Research in Aviation Technology (Civil and Military) |

BACKGROUND OF MEMBERS

| | Name of Leader & Members | Faculty & Staff No. | Qualification | Area of Expertise |
|----|-----------------------------|-----------------------------------|-----------------|---|
| | Prof. Wahyu Kuntjoro | Mechanical Engineering | PhD, PEng, CEng | Aircraft Design, Structural Integrity, Flight Performance |
| 99 | Prof. Wirachman Wisnoe | Mechanical Engineering | PhD | Aerodynamics, Propulsion |
| | Rizal Effendy Mohd Nasir | Mechanical Engineering | PhD | Flight Dynamics & Control, Flight Simulation |
| | Khairul Nizam Tahar | Seni Bina Perancangan dan Ukur | PhD | GIS, Aerial Mapping, UAV Operations |
| | Ramzyzan Ramly | Mechanical Engineering | PhD | Aircraft Structure & Testing, Mechanical System |
| 99 | Noor Iswadi | Mechanical Engineering | PhD | Aerodynamics, Fluid Structure Interaction |
| | Zurriati Mohd Ali | Mechanical Engineering | PhD | Aerodynamics, Computational Fluid Dynamics |
| | Bibi Intan Suraya Murat | Mechanical Engineering | PhD | Wave-based Structural Monitoring |

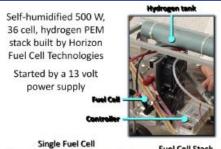
ATR ACHIEVEMENT(2015-2017)



| PENCAPAIAN | 2015 | 2016 | 2017 |
|--|------------|--------------|---------|
| Master Degree – Enrolled/On-Going | 12 | 11 | 14 |
| Master Degree - Graduated | 1 | 1 | 2 |
| PhD – Enrolled/On-Going | 9 | 9 | 8 |
| PhD – Graduated | 1 | 2 | 1 |
| No. of research grants | 11 | 14 | 11 |
| Total value of research grants (RM) | 936,000.00 | 1,155,700.00 | 750,600 |
| Total publication (Indexed Journals) (Note: not updated) | 19 | 10 | 30 |
| IPR | 1? | 1 | 2 |
| | | | |

Niche Area and Relevance of RIG





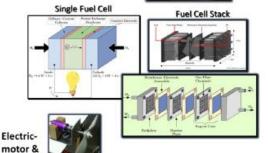




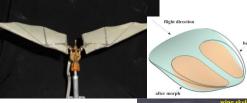
UiTM cipta teknologi inovasi taraf dunia

Bi Santa da Bara da

MH370 and 17 Interview



propeller

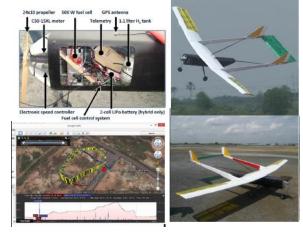


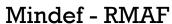
Morphing and Flapping wings





NAMTOR -copter







Blended Wing Body



Fuel Cell Powered Propulsion

Niche Area and Relevance of RIG



Research domain of ATR is aviation technology both in civil and military applications. Currently ATR is conducting research and development which covers:

- Surveillance and Mapping (copters and UAV platform).
- Advanced flight technology: Blended Wing Body UAV (platform).
- Structural Integrity and Monitoring: Royal Malaysian Air Force and others