

Fracture Mechanics & Materials Integrity (FMMI) Research Group

TIER 5 – RESEARCH INITIATIVE GROUP (RIG)

Name of RIG	:	Fracture Mechanics & Materials Integrity (FMMI)
Tier	:	5
Leader	:	Assoc. Prof. Dr. Aidah Jumahat
CoRe	:	Frontier Materials and Industrial Application (FMIA)
Registered Faculty	:	Mechanical Engineering
Registration date (Senate Approval)	:	10 May 2016
UiTM Niche Area	:	Advanced Manufacturing & Automation
RIG Niche Area	:	Research on behavior, deformation, damage and failure of engineering materials and manufacturing products

BACKGROUND OF MEMBERS

BIL	NAMA	KELAYAKAN AKADEMIK	FAKULTI	BIDANG KEPAKARAN
1	ASSOC. PROF. DR. AIDAH BINTI JUMAHAT	PhD	Kejuruteraan Mekanikal	Composites, Finite element modelling
2	DR. ZURAIDAH BT SALLEH	PhD	Kejuruteraan Mekanikal	Welding, Natural fibre composites
3	DR. ANIZAH BINTI KALAM	PhD	Kejuruteraan Mekanikal	Fracture mechanics
4	DR. KOAY MEI HYIE	PhD	Kejuruteraan Mekanikal	Corrosion
5	DR. NIK ROZLIN NIK MOHD MASDEK	PhD	Kejuruteraan Mekanikal	Nanocrystalline coatings
6	MARDZIAH CHE MURAD	MSc	Kejuruteraan Mekanikal	Biomaterials, ceramics
7	DR. SHAHRIMAN ZAINAL ABIDIN	PhD	Seni Lukis & Seni Reka	Industrial Design



FMMI ACHIEVEMENT(2015-2017)

PENCAPAIAN	2015	2016	2017
Master Degree – Enrolled/On-Going	5	15	18
Master Degree - Graduated	1	5	10
PhD – Enrolled/On-Going	1	8	8
PhD – Graduated	1	1	5
No. of research grants	2	7	10
Total value of research grants (RM)	171,560.00	489,000.00	924,835.00
Total publication (Indexed Journals)	25	37	10
Total publication (Non-indexed Journals)	5	8	2
IPR (Patent, Industrial design, Copyright)	0	1	2

OTHER ACHIEVEMENT FMMI (2015-2017)

ACHIEVEMENT	2015	2016	2017
NO. OF CONSULTANCY/ INDUSTRIAL LINKAGE/ COLLABORATION (National & International)	2	3	4
NO. OF MEMBERSHIP OF PROFESSIONAL BODIES AND ASSOCIATIONS (National & International)	10 (IEM, BEM, MyTribos, etc.)	11	13
NO. OF SPECIAL INVITATION/ APPOINTMENT/ EXPERTISE (National & International) incl. Keynote Speaker, Invited speaker, Thesis examiner, Judge, Reviewer, Panel, etc.)	16	25	14
NO. OF AWARDS/ RECOGNITION AND APPRECIATION (National & International)	9	11	7

Fracture Mechanics and Materials Integrity research group is formed to foster research on behavior, deformation, damage and failure of engineering materials when subjected to various types of loading and conditions.

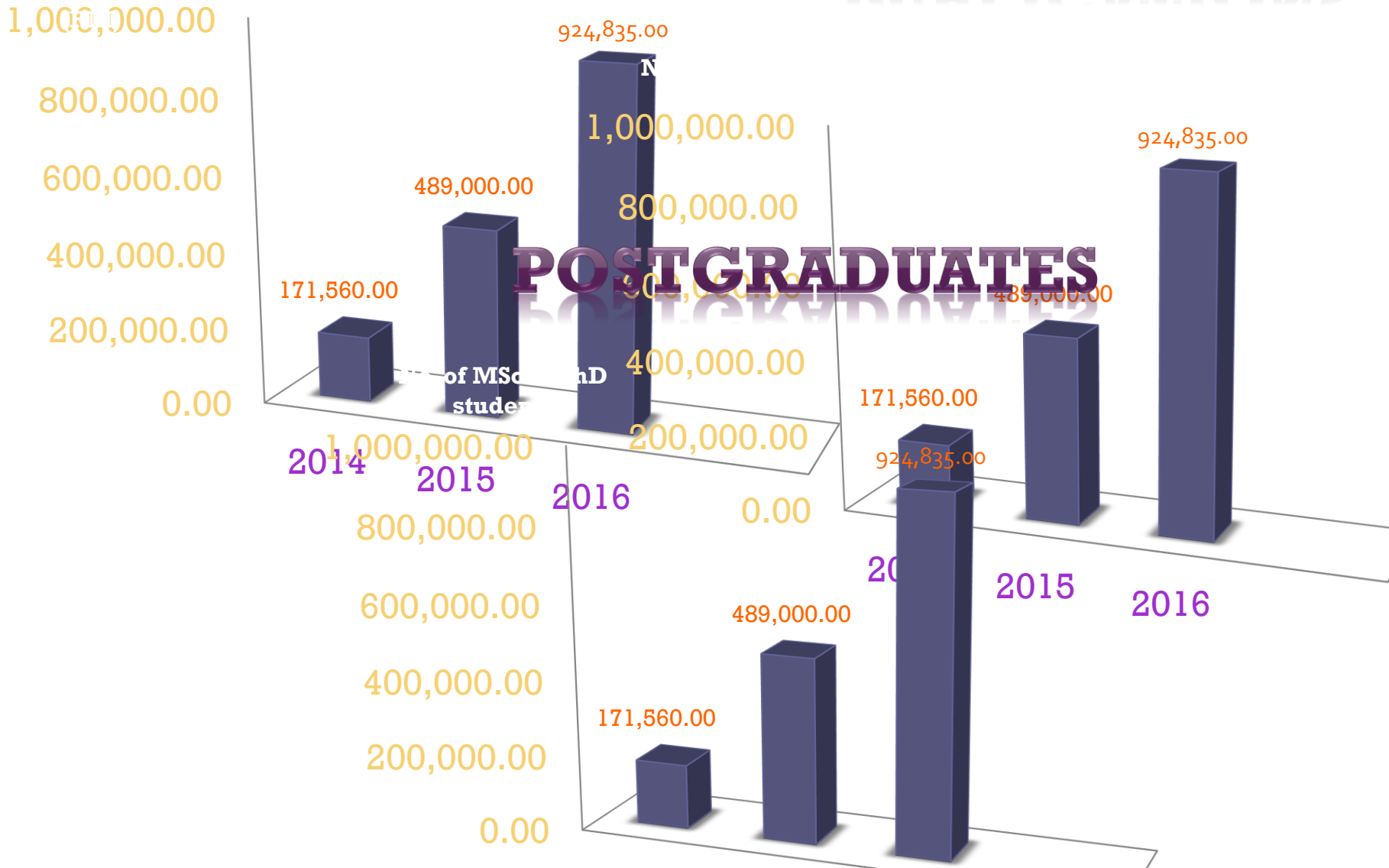
- Many activities emphasize on the following areas:
 1. Design and analysis of mechanical structures and machine elements based on experimental, mathematical modeling and simulation
 2. Development of new materials, high-strength light-weight components and structures
 3. Integration of materials properties and their applications in real engineering and manufacturing industries including automotive, railway, aerospace and marine
 4. Knowledge and technology transfer to clients includes guidelines, software, action plans, problem solving and industrial designs.

Research highlights

Pictures + Description

RESEARCH GRANTS

PUBLICATIONS



RESEARCH TEAM



ASSOC. PROF. DR. ANDIAH KALAM
JUMAHAT



ASSOC. PROF. DR.
SHARIMAN ZAINAL
ABIDIN



DR. ZURAIDAH SALLEH



DR. NIK ROZLIN NIK
MASDEK



DR. KOAY MEI HYE



MARDZIAH
CHE MURAD

The Fracture Mechanics and Materials Integrity research group is formed to foster research on behavior, deformation, damage and failure of engineering materials when subjected to various types of loading and conditions. It integrates the perspectives of applied mechanics and materials science to solve practical multidisciplinary problems for a wide range of materials systems and industrial designs.

