

Ultrasonic of Novel Metals and Oxides (UNMOX)

TIER 5 – RESEARCH INITIATIVE GROUP (RIG)

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| Name of RIG | : | Ultrasonic of Novel Metals and Oxides (UNMOX) |
| Registration Code | : | |
| Tier | : | 5 |
| Leader | : | Prof. Dr. Ahmad Kamal Hayati Yahya |
| CoRe | : | Frontier Materials and Industrial Application (FMIA) |
| Registered Faculty | : | Applied Sciences |
| Registration date (Senate Approval) | : | |
| UiTM Niche Area | : | Advanced Materials |
| RIG Niche Area | : | Research on elastic and structural properties of novel oxides such as superconducting and magnetic polycrystalline and amorphous oxides |

BACKGROUND OF MEMBERS

| BIL | NAMA | KELAYAKAN AKADEMIK | FAKULTI | BIDANG KEPAKARAN |
|-----|------------------------------------|--------------------|-----------------|-------------------------------|
| 1 | PROF. DR. AHMAD KAMAL HAYATI YAHYA | PhD | SAINS GUNAAN | Ultrasound and Superconductor |
| 2 | DR. MAHESH KUMAR TALARI | PhD | SAINS GUNAAN | Metal and Ceramic |
| 3 | DR. ROSDIYANA HASHAM@HISAM | PhD | SAINS GUNAAN | Glass and Dielectric |
| 4 | MOHD ISA MOHD YUSOF | MSc | SAINS GUNAAN | Glass and Elastic |
| 5 | SITI NURBAYA SUPARDAN | MSc | SAINS GUNAAN | Semiconductor and Magnetism |
| 6 | MOHAMED NADZRI MOHD YUSOF | MSc | SAINS KESIHATAN | X-ray |
| 7 | ZAKIAH MOHAMED | PhD | SAINS GUNAAN | Magnetic and Diffraction |



UNMOX ACHIEVEMENT(2015-2017)

| PENCAPAIAN | 2015 | 2016 | 2017 |
|--|---------|---------|---------|
| Master Degree - Enrolled/On going | 6 | 7 | 4 |
| Master Degree - Graduated | 2 | 2 | 4 |
| PHD - Enrolled/On going | 11 | 12 | 14 |
| PHD - Graduated | 4 | - | 2 |
| No of research grants | 7 | 9 | 12 |
| Total value of research grants (RMI) | 559,000 | 640,000 | 750,000 |
| Total publication (Indexed Journal) | 9 | 18 | 18 |
| Total publication (non-indexed Journal) | 0 | 0 | 0 |
| IPR (Patent, Industrial Design, Copyright) | - | - | - |

OTHER ACHIEVEMENT UNMOX (2015-2017)

| ACHIEVEMENT | 2015 | 2016 | 2017 |
|---|------|------|------|
| NO. OF CONSULTANCY/ INDUSTRIAL LINKAGE/ COLLABORATION (National & International) | 2 | 2 | 2 |
| NO. OF MEMBERSHIP OF PROFESSIONAL BODIES AND ASSOCIATIONS (National & International) | 5 | 5 | 5 |
| NO. OF SPECIAL INVITATION/ APPOINTMENT/ EXPERTISE (National & International) incl. Keynote Speaker, Invited speaker, Thesis examiner, Judge, Reviewer, Panel, etc.) | 5 | 5 | 5 |
| NO. OF AWARDS/ RECOGNITION AND APPRECIATION (National & International) | 2 | - | - |

Niche Area and Relevance of RIG

The Ultrasonics of Novel Metals and Oxides (UNMOX) research interest group (RIG) was established in 2014 under the Faculty of Applied Sciences and is registered with the Research and Management Institute (RMI). UNMOX aims to be amongst the country's leading group in elastic and structural properties of novel oxides such as superconducting and magnetic polycrystalline and amorphous oxides. The group also conducts research on other complementary physical properties of the oxides such as electrical, optical and structural properties of oxides relevant for practical applications. Currently our independent researchers are in collaboration with other leading local and overseas groups and laboratories.



Research highlights

