



UNIVERSITI TEKNIKAL MALAYSIA MELAKA

STAFF PROFILE

NAME DR. MOHD HAFIDZAL BIN MOHD HANAFI

FACULTY / CENTRE FAKULTI KEJURUTERAAN MEKANIKAL

DESIGNATION PENSYARAH UNIVERSITI

CURRENT POSITION PENSYARAH KANAN - FAKULTI KEJURUTERAAN MEKANIKAL

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ACADEMIC QUALIFICATION

YEAR	QUALIFICATION	INSTITUTION
2019	KEDOKTORAN FALSAFAH (PH.D)	TOHOKU UNIVERSITY
2012	SARJANA (MASTERS)	UNIVERSITI KEBANGSAAN MALAYSIA
2010	SARJANA MUDA KEPUJIAN(BACHELOR HONS)	FUKUI UNIVERSITI,JEPUN

FIELD OF INTEREST

SOOT EMISSION, RENEWABLE ENERGY AND ALTERNATIVE FUEL.

TEACHING EXPERIENCE *(last 5 years)*

UNDERGRADUATES

SESSION	COURSE
2021/2022	BLLW1232 - JAPANESE 1
2021/2022	BMCG3713 - THERMODYNAMICS II
2021/2022	DMCT2133 - THERMODYNAMICS
2020/2021	BLHL1312 - JAPANESE I
2020/2021	BMCG1523 - ENGINEERING GRAPHICS AND COMPUTER AIDED DESIGN
2020/2021	BMCG2021 - MECHANICAL ENGINEERING WORKSHOP
2020/2021	DMCT2133 - THERMODYNAMICS
2019/2020	BLHL1312 - JAPANESE I
2019/2020	BMCG1523 - ENGINEERING GRAPHICS AND COMPUTER AIDED DESIGN
2019/2020	DMCD1543 - ENGINEERING GRAPHIC
2018/2019	BLHL1312 - JAPANESE I
2018/2019	BMCG2021 - MECHANICAL ENGINEERING WORKSHOP
2018/2019	BMCG3653 - THERMODYNAMICS & HEAT TRANSFER

LIST OF GRANTS *(last 5 years)*

YEAR AWARDED	TITLE OF PROJECT	TYPE OF GRANT	AMOUNT (RM)	ROLE
2020	UTILIZATION AND RECYCLING WASTING COOKING OIL WITH GINGER TO PRODUCE ORGANIC INTELLIGENT CANDLE AND ORGANIC PLASTIC ALTERNATIVES	HIGH IMPACT (UTEM)	46000	MAIN RESEARCHER
2020	ADSORPTION RATE OF POLYCYCLIC AROMATIC HYDROCARBONS TO REDUCE SOOT USING ZINGIBER OFFICINALE IN WASTE COOKING OIL	GERAN FRGS (NATIONAL)	81910	MAIN RESEARCHER

2020	DESIGN AND DEVELOPMENT OF IOT-BASED WIRELESS VIBRATION MONITORING SYSTEM FOR DECANter MACHINE IN PALM OIL MILL	SHORT TERM (UTEM)	20000	CO-RESEARCHER
2019	INSPECTION ON SAFETY AND HEALTH FOR REJUVENATION OF KIDDIE PARK EMUSEMENT EQUIPMENT FOR DOSH APPROVAL	GERAN INDUSTRI (INDUSTRY)	30000	CO-RESEARCHER
2019	DEVELOPMENT OF LEAD HALIDE PEROVSKITE CELLS WITH ORGANIC HOLE TRANSPORT MATERIAL FOR SOLAR CELL APPLICATION	SHORT TERM (UTEM)	20000	CO-RESEARCHER

PUBLICATIONS (last 5 years)**JOURNAL**

YEAR	TITLE	NAME OF JOURNAL	AUTHORS
2020	EFFECTS OF N-BUTANOL BLENDS ON THE FORMATION OF HYDROCARBONS AND PAHS FROM FUEL-RICH HEPTANE COMBUSTION IN A MICRO FLOW REACTOR WITH A CONTROLLED TEMPERATURE PROFILE	COMBUSTION SCIENCE AND TECHNOLOGY	MOHD HAFIDZAL BIN MOHD HANAFI, HISASHI NAKAMURA, SUSUMU HASEGAWA, TAKUYA TEZUKA, AND KAORU MARUTA
2018	EFFECTS OF N-BUTANOL ADDITION ON SOOTING TENDENCY AND FORMATION OF C1 & C2 PRIMARY INTERMEDIATES OF N-HEPTANE/AIR MIXTURE IN A MICRO FLOW REACTOR WITH A CONTROLLED TEMPERATURE PROFILE	COMBUSTION SCIENCE AND TECHNOLOGY	MOHD HAFIDZAL BIN MOHD HANAFI, HISASHI NAKAMURA, SUSUMU HASEGAWA, TAKUYA TEZUKA & KAORU MARUTA
2017	EFFECT OF N-BUTANOL ADDITION ON SOOT FORMATION OF N-HEPTANE IN A MICRO FLOW REACTOR WITH A CONTROLLED TEMPERATURE PROFILE.	ARPJ JOURNAL OF ENGINEERING AND APPLIED SCIENCES	MOHD HAFIDZAL BIN MOHD HANAFI, HISASHI NAKAMURA, TAKUYA TEZUKA AND KAORU MARUTA

POSTGRADUATE SUPERVISION *(last 5 years)*

NO	NAME	LEVEL OF STUDY	ROLE	STATUS
1	NURUL AFWANISA` BINTI AB RAZAK	MASTERS	MAIN SUPERVISOR	ACTIVE
2	ANIS AINAA BINTI OMAR	MASTERS	MAIN SUPERVISOR	ACTIVE

LIST OF RESEARCH AWARDS (last 5 years)

YEAR	TITLE	EXHIBITION	LEVEL	AWARD
2020	ORGANIC PLASTIC ALTERNATIVE (OPA)	EKSPLO PENYELIDIKAN ANTARABANGSA , ITEX KUALA LUMPUR	INTERNATIONAL	SILVER
2020	ORGANIC PLASTIC ALTERNATIVE (OPA)	IPTA R&D EXPO , APRENTICE INNOVATION & RESEARCH EXHIBITION (AIREX) 2020	NATIONAL	GOLD
2020	ORGANIC INTELLIGENT CANDLE FROM TREATED WASTE COOKING OIL	IPTA R&D EXPO , APRENTICE INNOVATION & RESEARCH EXHIBITION (AIREX) 2020	NATIONAL	GOLD
2020	FISHING BAIT LAUNCHER	EKSPLO PENDIDIKAN , VIRTUAL RESEARCH AND INNOVATION EXHIBITION (EREKA) 2020	NATIONAL	GOLD
2020	ORGANIC INTELLIGENT CANDLE (OIC)	EKSPLO PENDIDIKAN , VIRTUAL RESEARCH AND INNOVATION EXHIBITION (EREKA) 2020	NATIONAL	SILVER
2020	ORGANIC PLASTIC ALTERNATIVE (OPA)	EKSPLO PENDIDIKAN , VIRTUAL RESEARCH AND INNOVATION EXHIBITION (EREKA) 2020	NATIONAL	SILVER
2019	FISHING BAIT LAUNCHER	UTEMEX , DEWAN CANSELOR, UTEM	UNIVERSITY	BRONZE
2019	ORGANIC ARTIFICIAL PRODUCT	UTEMEX , DEWAN CANSELOR, UTEM	UNIVERSITY	SILVER
2019	ORGANIC CANDLE		STATE	SILVER
2019	ORGANIC CANDLE	UTEMEX , UTEMEX 2019, DEWAN CANSELOR, UTEM	UNIVERSITY	SILVER
2019	AIR BAIT CANNON FOR SURF FISHING	EKSPLO IPTA , INTERNATIONAL RESEARCH AND INNOVATION SYMPOSIUM AND EXPOSITION 2019	INTERNATIONAL	BRONZE

INTELLECTUAL PROPERTIES

YEAR	INVENTION NAME	TYPE
2020	FISHING BAIT LAUNCHER	COPYRIGHT
2014	BLEEDER PUMP	COPYRIGHT
2014	SOLAR FAN HUMIDIFIER	COPYRIGHT

STAFF PROFILE

KATEGORI MAKLUMAT	PEJABAT DIRUJUK
PERSONAL INFORMATION	BAHAGIAN SUMBER MANUSIA, PEJABAT PENDAFTAR
ACADEMIC QUALIFICATON	
PROFESSIONAL MEMBERSHIP / LEARNED SOCIETY	
TEACHING EXPERIENCE	BAHAGIAN PENGURUSAN AKADEMIK, PEJABAT PENDAFTAR
<ul style="list-style-type: none"> • UNDERGRADUATES 	
<ul style="list-style-type: none"> • POSTGRADUATES 	PUSAT PENGAJIAN SISWAZAH (PPS)
POSTGRADUATE SUPERVISION	PUSAT PENGAJIAN SISWAZAH (PPS)
FIELD OF INTEREST	PUSAT PENGURUSAN PENYELIDIKAN DAN INOVASI (CRIM)
LIST OF GRANTS	
LIST OF RESEARCH AWARDS	PUSAT PENGKOMERSILAN (UCC)
INTELLECTUAL PROPERTIES	
COMMERCIALIZATION	
PUBLICATIONS	PERPUSTAKAAN LAMAN HIKMAH
CONSULTANCY	PUSAT JARINGAN INDUSTRI DAN MASYARAKAT (PJIM)