



UNIVERSITI TEKNIKAL MALAYSIA MELAKA

STAFF PROFILE

NAME DR. FADHILAH BINTI SHIKH ANUAR

FACULTY / CENTRE FAKULTI TEKNOLOGI KEJURUTERAAN MEKANIKAL DAN PEMBUATAN

DESIGNATION PENSYARAH UNIVERSITI

CURRENT POSITION PENYELARAS - FAKULTI TEKNOLOGI KEJURUTERAAN MEKANIKAL DAN PEMBUATAN

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ACADEMIC QUALIFICATION

YEAR	QUALIFICATION	INSTITUTION
2019	KEDOKTORAN FALSFAH (PH.D)	THE UNIVERSITY OF QUEENSLAND
2011	SARJANA (MASTERS)	UNIVERSITI MALAYA
2008	SARJANA MUDA KEPUJIAN(BACHELOR HONS)	UNIVERSITI TENAGA NASIONAL

FIELD OF INTEREST

ENERGY MANAGEMENT, GREEN TECHNOLOGY, NANOFLUIDS, HEAT EXCHANGER, POROUS MEDIA, HVAC

TEACHING EXPERIENCE *(last 5 years)*

UNDERGRADUATES

SESSION	COURSE
2021/2022	BMMA1303 - ENGINEERING GRAPHICS
2021/2022	BMMH4613 - HVAC GREEN TECHNOLOGY
2020/2021	BMMA1303 - ENGINEERING GRAPHICS
2020/2021	BMMA1323 - ENGINEERING DESIGN
2020/2021	BMMH4613 - HVAC GREEN TECHNOLOGY
2020/2021	BMMV4333 - GREEN BUILDING AND SUSTAINABILITY
2019/2020	BMCG2613 - FLUID MECHANICS I
2019/2020	DMCF2223 - FLUID MECHANICS
2019/2020	DMCU1012 - EXPERIMENTAL METHOD
2018/2019	BMCG2011 - MECHANICAL ENGINEERING LABORATORY II
2018/2019	BMCG2613 - FLUID MECHANICS I
2018/2019	BMCU3935 - INDUSTRIAL TRAINING
2018/2019	DMCF2213 - FLUID MECHANICS I
2017/2018	BMCU3935 - INDUSTRIAL TRAINING

LIST OF GRANTS *(last 5 years)*

YEAR AWARDED	TITLE OF PROJECT	TYPE OF GRANT	AMOUNT (RM)	ROLE
2021	KNUDSEN NUMBER AND THERMOHYDRAULIC PROPERTIES OF THERMALLY INDUCED GAS FLOW THROUGH HONEYCOMB-LIKE POROUS STRUCTURE USING PARTICLE-IMAGE-VELOCIMETRY	GERAN FRGS (NATIONAL)	104300	CO-RESEARCHER
2020	PREDICTION OF SLIP VELOCITY AT THE INTERFACE OF OPEN-CELL METAL FOAM USING REVERSE ENGINEERING AND FLOW VISUALIZATION TECHNIQUES	GERAN FRGS (NATIONAL)	102700	MAIN RESEARCHER
2020	DEVELOPMENT OF SMART BIODIESEL STORAGE MONITORING SYSTEM USING THE INTERNET OF THINGS (IOT)	SHORT TERM (UTEM)	38000	CO-RESEARCHER
2020	CORRELATION OF HEAT TRANSFER PARAMETERS IN NONLINEAR OSCILLATORY THERMOACOUSTIC FLOWS USING EXPERIMENTALLY VALIDATED COMPUTATIONAL-FLUID-DYNAMICS MODELS	GERAN FRGS (NATIONAL)	148430	CO-RESEARCHER
2019	INVESTIGATION OF OSCILLATORY AND UNIDIRECTIONAL STEADY FLOWS IN THE VICINITY OF PARALLEL-PLATES USING FLOW VISUALIZATION TECHNIQUE	SHORT TERM (UTEM)	20000	MAIN RESEARCHER
2019	GERAN SANJUNGAN INSENTIF PENERBITAN JURNAL 2018	GERAN SANJUNGAN	5000	MAIN RESEARCHER

		INSENTIF PENERBITAN JURNAL (UTEM)		
2019	INVESTIGATION OF HEAT TRANSFER PERFORMANCES ACROSS TUBE BANKS IN ONE-DIRECTIONAL AND BI-DIRECTIONAL FLOW CONDITIONS	GERAN RACER (NATIONAL)	56000	CO-RESEARCHER

PUBLICATIONS (last 5 years)**JOURNAL**

YEAR	TITLE	NAME OF JOURNAL	AUTHORS
2021	A PRELIMINARY CONCEPTUAL DESIGN APPROACH OF FOOD WASTE COMPOSTER DESIGN	EVERGREEN	NG ANGIE, ERNIE MAT TOKIT, NORASRA ABD RAHMAN, FATIMAH AL ZAHRAH MOHAMAD SAAT, FADHILAH SHIKH ANUAR, NONA MERRY M. MITAN,
2021	COMPUTATIONAL FLUID DYNAMICS STUDY OF WAKE RECOVERY FOR FLOW ACROSS HYDROKINETIC TURBINE AT DIFFERENT DEPTH OF WATER	CFD LETTERS	HEW WEI REN, FATIMAH AL ZAHRAH MOHD SAAT, FADHILAH SHIKH ANUAR2, MOHD ARIZAM ABDUL WAHAP, ERNIE MAT TOKIT, TEE BOON TUAN
2021	HEAT TRANSFER ACROSS TUBE BANKS WITH A PASSIVE CONTROL VORTEX GENERATOR IN STEADY ONE-DIRECTIONAL AND OSCILLATORY FLOWS	CFD LETTERS	CHOU AW LIN, FATIMAH AL ZAHRAH MOHD SAAT, FADHILAH SHIKH ANUAR, MUHAMMAD FIRDAUS SUKRI, MOHD ZAID AKOP, ZAINUDDIN ABDUL MANAN
2021	TEMPERATURE AND VELOCITY CHANGES ACROSS TUBE BANKS IN ONE-DIRECTIONAL AND BI-DIRECTIONAL FLOW CONDITIONS	EVERGREEN	NURJANNAH HASBULLAH, FATIMAH AL ZAHRAH MOHD SAAT, FADHILAH SHIKH ANUAR, DAHLIA JOHARI, MOHAMAD FIRDAUS SUKRI.
2020	EXPERIMENTAL STUDY OF PARTICULATE FOULING IN PARTIALLY FILLED CHANNEL WITH OPEN-CELL METAL FOAM	EXPERIMENTAL THERMAL AND FLUID SCIENCE	FADHILAH SHIKH ANUAR KAMEL HOOMAN M. R. MALAYERI IMAN ASHTIANI ABDI
2020	HEAT TRANSFER ACROSS TUBE BANKS WITH A PASSIVE CONTROL VORTEX GENERATOR IN STEADY ONE-DIRECTIONAL AND OSCILLATORY FLOWS	CFD LETTERS	
2019	NUMERICAL AND EXPERIMENTAL INVESTIGATIONS OF THE OSCILLATORY FLOW INSIDE STANDING WAVE THERMOACOUSTIC SYSTEM AT TWO DIFFERENT FLOW FREQUENCIES	CFD LETTERS	FATIMAH AL ZAHRAH MOHD SAAT, SITI HAJAR ADNI MUSTAFFA, FADHILAH SHIKH ANUAR
2018	EXPERIMENTAL STUDY OF FLUID FLOW BEHAVIOUR AND PRESSURE DROP IN CHANNELS PARTIALLY FILLED WITH METAL FOAMS	EXPERIMENTAL THERMAL AND FLUID SCIENCE	FADHILAH SHIKH ANUAR, IMAN ASHTIANI ABDI, MOSTAFA ODABAE, KAMEL HOOMAN
2018	FLOW VISUALIZATION STUDY OF PARTIALLY FILLED CHANNEL WITH ALUMINIUM FOAM BLOCK	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	FADHILAH SHIKH ANUAR, IMAN ASHTIANI, KAMEL HOOMAN
2018	THERMOHYDRAULICS OF A METAL FOAM-FILLED ANNULUS	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	ORIHUELA M.P., SHIKH ANUAR F., ASHTIANI ABDI I., ODABAE M., HOOMAN K.
2017	PARTICULATE FOULING AND CHALLENGES OF METAL FOAM HEAT EXCHANGERS	HEAT TRANSFER ENGINEERING	FADHILAH SHIKH ANUAR, M. REZA MALAYERI, KAMEL HOOMAN

CONFERENCE

YEAR	TITLE	NAME OF CONFERENCE	AUTHORS
2021	INVESTIGATION ON OSCILLATORY FLOW WITHIN A CHANNEL OF A STRUCTURE IN THERMOACOUSTIC ENERGY SYSTEM	ICAMET 2020 (AIP CONFERENCE PROCEEDINGS)	W. A. ALLAFI, F. A. Z. MOHD SAAT, A. R. IRFAN, F. SHIKH ANUAR, D. JOHARI, M. F. SUKRI, AND P. SAECHAN
2021	COMPUTATIONAL FLUID DYNAMICS MODELLING OF A HYDROKINETIC TURBINE	ICAMET 2020 (AIP CONFERENCE PROCEEDINGS)	W. R. HEW, F. A. Z. MOHD SAAT, A. R. IRFAN, E. MAT TOKIT, M. A. M. ROSLI, F. SHIKH ANUAR, S. G. HERAWAN, AND S. I. A. SYAHPUTRA
2020	THE IMPACT OF COMPUTATIONAL DOMAIN ON HEAT TRANSFER SOLUTION OF FLOW ACROSS TUBE BANKS WITH VORTEX GENERATORS	7TH MECHANICAL ENGINEERING RESEARCH DAY (MERD'20)	CHOU AW LIN, FATIMAH AL-ZAHRAH MOHD SAAT, FADHILAH SHIKH ANUAR2, DAHLIA JOHARI
2020	CORBICULLA FLUMINEA SHELL AS SOLID CATALYST FOR TRANSESTERIFICATION OF HEVEA BRASILIESIS OIL VIA MICROWAVE IRRADIATION	7TH MECHANICAL ENGINEERING RESEARCH DAY (MERD'20)	MAHANUM MOHD ZAMBERI, FARID NASIR ANI, MOHD FADZLI BIN ABDOLLAH, FADHILAH SHIKH ANUAR
2020	INVESTIGATION OF FLOW BEHAVIORS AND TEMPERATURE DISTRIBUTION IN POROUS FOAM USING INFRARED THERMOGRAPHIC TECHNIQUE	7TH MECHANICAL ENGINEERING RESEARCH DAY (MERD'20)	FADHILAH SHIKH ANUAR, FATIMAH AL-ZAHRAH MOHD SAAT, ERNIE MAT TOKIT
2020	CONCEPTUAL DESIGN OF KITCHEN FOOD WASTE COMPOSTER USING MORPHOLOGICAL CHART	7TH MECHANICAL ENGINEERING RESEARCH DAY (MERD'20)	NG ANGIE, ERNIE MAT TOKIT, FATIMAH AL-ZAHRAH MOHD SAAT, FADHILAH SHIKH ANUAR

PROFESSIONAL MEMBERSHIPS / LEARNED SOCIETY

YEAR	ROLE	INSTITUTION	LEVEL
2013	AHLI	INSTITUT JURUTERA MALAYSIA (IEM)	KEBANGSAAN
2009	JURUTERA SISWAZAH	LEMBAGA JURUTERA MALAYSIA (BEM)- (ENGINEERS ACT 1967)	KEBANGSAAN

POSTGRADUATE SUPERVISION (*last 5 years*)

NO	NAME	LEVEL OF STUDY	ROLE	STATUS
1	KHAIRUL AZHAR BIN MUSTAPHA	MASTERS	MAIN SUPERVISOR	ACTIVE
2	CHOU AW LIN	MASTERS	CO-SUPERVISOR	ACTIVE

LIST OF RESEARCH AWARDS *(last 5 years)*

YEAR	TITLE	EXHIBITION	LEVEL	AWARD
2021	BIOBIG - BIODIESEL BIJI GETAH	IPTA R&D EXPO , UNIVERSITI MALAYSIA PERLIS	NATIONAL	GOLD
2020	ROUNDAABOUT SENSOR DETECTION SYSTEM	IPTA R&D EXPO , UNIVERSITI MALAYSIA PERLIS	NATIONAL	GOLD
2020	VISITOR SCREENING AND SANITIZING STATION	MINI UTEMEX , UNIVERSITI TEKNIKAL MALAYSIA MELAKA	FACULTY/CENTRE	GOLD
2019	FISHING BAIT LAUNCHER	IPTA R&D EXPO , UNIVERSITI TUN HUSSEIN ONN MALAYSIA	NATIONAL	BRONZE

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)