



اَبُو سَيِّدِي تَيْكُوْلُو كِيْنِي مَبَارَا  
UNIVERSITI  
TEKNOLOGI  
MARA

# RESEARCH TITLES

## Master(EM750) and PhD(EM950) by Research

**Faculty of Mechanical Engineering  
of UiTM, Malaysia WELCOME**

**All Potential Postgraduate Students**

**Head  
Center of Graduate Studies  
Assoc. Prof. Dr. Solehuddin Shuib  
Faculty of Mechanical Engineering  
UiTM Shah Alam  
Selangor**

# Research Titles

No.	Main Supervisor	Research Title	Area	Level
1	<b>Dr Abdul Halim bin Abdullah</b> <a href="mailto:halim471@salam.uitm.edu.my">halim471@salam.uitm.edu.my</a>	Prediction of Femoral Bone Fractures after Hip Arthroplasty	Biomechanics	MSc, PhD
2	<b>Assoc. Prof. Dr. Solehuddin Shuib</b> <a href="mailto:solehuddin2455@salam.uitm.edu.my">solehuddin2455@salam.uitm.edu.my</a>	Development of dental implant in bone resorption environment	Biomechanics	PhD
3	<b>Assoc. Prof. Dr. Solehuddin Shuib</b> <a href="mailto:solehuddin2455@salam.uitm.edu.my">solehuddin2455@salam.uitm.edu.my</a>	Development of hi flexion Total Knee replacement	Biomechanics	MSc, PhD
4	<b>Dr Ahmad Hussein bin Abdul Hamid</b> <a href="mailto:husein@salam.uitm.edu.my">husein@salam.uitm.edu.my</a>	Evaluation of air core diameter of pressure-swirl atomizer with various geometrical parameters	Thermofluids	MSc, PhD
5	<b>Assoc. Prof. Dr. Wan Ahmad Najmi bin Wan Mohamed</b> <a href="mailto:wanaajmi@salam.uitm.edu.my">wanaajmi@salam.uitm.edu.my</a>	Optimization of Thermoelectric Generators configuration for low grade waste heat recovery	Energy	MSc, PhD
6	<b>Assoc. Prof. Dr. Wan Ahmad Najmi bin Wan Mohamed</b> <a href="mailto:wanaajmi@salam.uitm.edu.my">wanaajmi@salam.uitm.edu.my</a>	Analysis of electrothermal characteristics of advanced nanofluids	Energy	MSc, PhD
7	<b>Dr. Rizal E. M. Nasir</b> <a href="mailto:rizal524@salam.uitm.edu.my">rizal524@salam.uitm.edu.my</a>	Flight Dynamic Behaviour of Malay Kite-Inspired Blended Wing-Body Aircraft.	Fluid dynamics	PhD
8	<b>Dr Baljit Singh</b> <a href="mailto:baljit@salam.uitm.edu.my">baljit@salam.uitm.edu.my</a>	Exhaust heat recovery using thermoelectric generator	Thermofluids	Msc
9	<b>Dr Baljit Singh</b> <a href="mailto:baljit@salam.uitm.edu.my">baljit@salam.uitm.edu.my</a>	Passive Cooling of PV panels for enhanced efficiency and performance.	Thermofluids	PhD

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No.	Main Supervisor	Research Title	Area	Level
10	<b>Dr Noor Azlina Mohd Salleh</b> <a href="mailto:noorazlinamohdsalleh@salam.uitm.edu.my">noorazlinamohdsalleh@salam.uitm.edu.my</a>	Real time production monitoring by using big data and arduino in implementing lean production system	Manufacturing	MSc, PhD
11	<b>Dr Noor Azlina Mohd Salleh</b> <a href="mailto:noorazlinamohdsalleh@salam.uitm.edu.my">noorazlinamohdsalleh@salam.uitm.edu.my</a>	Application of automotive recycle materials in the new products	Manufacturing	PhD
12	<b>Assoc. Prof. Dr. Nik Rosli Bin Abdullah</b> <a href="mailto:nikrosli@salam.uitm.edu.my">nikrosli@salam.uitm.edu.my</a>	Study on combustion behaviour of gasoline engine fueled with variations of green fuels.	Thermofluids	PhD
13	<b>Assoc. Prof. Dr. Nik Rosli Bin Abdullah</b> <a href="mailto:nikrosli@salam.uitm.edu.my">nikrosli@salam.uitm.edu.my</a>	Effects of air intake temperature to the engine performance and exhausts emissions.	Thermofluids	MSc
14	<b>Assoc. Prof. Dr. Nik Rosli Bin Abdullah</b> <a href="mailto:nikrosli@salam.uitm.edu.my">nikrosli@salam.uitm.edu.my</a>	Optimization on fuel properties of variations biofuels to the engine performance and exhausts emissions.	Thermofluids	PhD
15	<b>Assoc. Prof. Dr. Nik Rosli Bin Abdullah</b> <a href="mailto:nikrosli@salam.uitm.edu.my">nikrosli@salam.uitm.edu.my</a>	Investigation on Dual Fuel Metal Additives to the combustion behaviour and reduced engine emissions.	Thermofluids	MSc, PhD
16	<b>Dr. Mohd Faizal Mohamad</b> <a href="mailto:faizal3744@salam.uitm.edu.my">faizal3744@salam.uitm.edu.my</a>	Large eddy simulation on the effect of urban morphology on turbulence structure	Thermofluids	MSc, PhD
17	<b>Dr Zulkifli bin Mohamed</b> <a href="mailto:zulkifli127@salam.uitm.edu.my">zulkifli127@salam.uitm.edu.my</a>	New Upper Body Humanoid Robot Design for Assisting the Elderly	Robotic and control	Msc
18	<b>Dr Zulkifli bin Mohamed</b> <a href="mailto:zulkifli127@salam.uitm.edu.my">zulkifli127@salam.uitm.edu.my</a>	Path Optimization of Universal Wheelchair Transporter via Multi Objective Evolutionary Algorithm	Robotic and control	PhD

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No.	Main Supervisor	Research Title	Area	Level
20	<b>Prof. Muhammad Azmi Ayub</b> <a href="mailto:muhammadayub@salam.uitm.edu.my">muhammadayub@salam.uitm.edu.my</a>	Robotic handling of deformable objects.	Robotic and control	MSc, PhD
21	<b>Dr Nor Hafiez Mohamad Nor</b> <a href="mailto:norhafiez@salam.uitm.edu.my">norhafiez@salam.uitm.edu.my</a>	Optimization of dental implant of Ti-6Al-4V and palm stearin binder using Metal Injection Molding	Manufacturing & Material	PhD
22	<b>Assoc. Prof. Nor'aini Wahab</b> <a href="mailto:noraini416@salam.uitm.edu.my">noraini416@salam.uitm.edu.my</a>	Development of Novel Biodegradable Metallic Implant via Metal Injection Moulding Technique.	Manufacturing & Material	MSc
23	<b>Dr Sukarnur Abdullah</b> <a href="mailto:sukarnur@salam.uitm.edu.my">sukarnur@salam.uitm.edu.my</a>	Development Sensor Fusion For Humanoid Robot	Robotic and control	MSc, PhD
24	<b>Assoc. Prof. Dr. Solehuddin Shuib</b> <a href="mailto:solehuddin2455@salam.uitm.edu.my">solehuddin2455@salam.uitm.edu.my</a>	Experimental and FE investigation on the effectiveness of different insoles on the plantar pressure distribution	Biomechanics & Ergonomic	MSc, PhD
25	<b>Dr. Nor Fazli Adull Manan</b> <a href="mailto:norfazli@salam.uitm.edu.my">norfazli@salam.uitm.edu.my</a>	Hybrid Material Analysis incorporated with skin	Biomechanics	MSc
26	<b>Dr. Wan Mazlina Wan Mohamed</b> <a href="mailto:wmazlina@salam.uitm.edu.my">wmazlina@salam.uitm.edu.my</a>	Low Cost Passengers willingness to pay on air travel services	Quality Management	MSc
27	<b>Dr. Mohd Rozaiman Aziz</b> <a href="mailto:man@ppinang.uitm.edu.my">man@ppinang.uitm.edu.my</a>	Energy absorption in impact	Applied mechanics	MSc
28	<b>Dr. Mohd Rozaiman Aziz</b> <a href="mailto:man@ppinang.uitm.edu.my">man@ppinang.uitm.edu.my</a>	Ballistic limit in hydrodynamic ram	Applied mechanics	PhD

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29	<b>Prof. Muhammad Azmi Ayub</b> <a href="mailto:muhammadayub@salam.uitm.edu.my">muhammadayub@salam.uitm.edu.my</a>	Robotic handling of deformable objects.	Robotic and control	MSc, PhD
30	<b>Dr Azmi Patar</b> <b>Co : Prof Ir Dr Hj Ahmed Bin Jaffar</b> <a href="mailto:azmipatar@salam.uitm.edu.my">azmipatar@salam.uitm.edu.my</a>	Development of Robotic Fingers EEG (Electroencephalography) simulation Project.	Robotic and control	MSc, PhD
31	<b>Dr Azmi Patar</b> <b>Co : Prof Ir Dr Hj Ahmed Bin Jaffar</b> <a href="mailto:azmipatar@salam.uitm.edu.my">azmipatar@salam.uitm.edu.my</a>	Arduino Microcontroller Project (Blind Spot Detector/Smart Gas Leakage Detector/Automatic Blind Curtain System/Bluetooth Remote Home Automation System).	Robotic and control	MSc, PhD
32	<b>Assoc Prof. Dr Muhammad Hussain Ismail</b> <a href="mailto:hussain305@salam.uitm.edu.my">hussain305@salam.uitm.edu.my</a>	Effect of Heat Treatment on Shape Memory Behaviour and Stress Hysterisis of Porous Ti Alloy	Mechanics & Material	MSc
33	<b>Assoc Prof. Dr Muhammad Hussain Ismail</b> <a href="mailto:hussain305@salam.uitm.edu.my">hussain305@salam.uitm.edu.my</a>	Development of Funtionally Graded NiTi Alloy by Metal Injection Moulding and Micromachining	Mechanics & Material	PhD
34	<b>Assoc. Prof Dr Nor Hayati Saad</b> <a href="mailto:norhayatisaad@salam.uitm.edu.my">norhayatisaad@salam.uitm.edu.my</a>	Characterization of Brain Signal Wave and Human Behaviour	Manufacturing	PhD
35	<b>Assoc. Prof Dr Nor Hayati Saad</b> <a href="mailto:norhayatisaad@salam.uitm.edu.my">norhayatisaad@salam.uitm.edu.my</a>	Integrated Blllood Sensor for Heart Surgery	Manufacturing	PhD
36	<b>Assoc. Prof Dr Nor Hayati Saad</b> <a href="mailto:norhayatisaad@salam.uitm.edu.my">norhayatisaad@salam.uitm.edu.my</a>	Characterization of Breathing Pattern Signal and Human Disease	Manufacturing	PhD
37	<b>Assoc. Prof Dr Nor Hayati Saad</b> <a href="mailto:norhayatisaad@salam.uitm.edu.my">norhayatisaad@salam.uitm.edu.my</a>	Micro and Nano Surface Structure mimicking from the nature	Manufacturing	PhD

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No.	Main Supervisor	Research Title	Area	Level
38	<b>Assoc. Prof Dr Nor Hayati Saad</b> <a href="mailto:norhayatisaad@salam.uitm.edu.my">norhayatisaad@salam.uitm.edu.my</a>	Micro Wireless Heat Sensing System for Integttated Slip.Rotary Moulding Machine	Manufacturin g	MSc
39	<b>Assoc. Prof Dr Nor Hayati Saad</b> <a href="mailto:norhayatisaad@salam.uitm.edu.my">norhayatisaad@salam.uitm.edu.my</a>	Integrated Humidity Sensor for Food Industry	Manufacturin g	MSc
40	<b>Dr-ing. Alhassan Salami Tijani</b> <a href="mailto:alhassan@salam.uitm.edu.my">alhassan@salam.uitm.edu.my</a>	Investigation Of The Effect Of Thermal Parameters On The Gas Crossover Flux And Efficiency Losses In Pem Electrolyzer	Thermofluids	MSc, PhD
41	<b>Dr-ing. Alhassan Salami Tijani</b> <a href="mailto:alhassan@salam.uitm.edu.my">alhassan@salam.uitm.edu.my</a>	Numerical simulation of fluid flow and heat transfer characteristics in micro pin-fin heat sinks using nanofluid as coolant	Thermofluids	MSc, PhD
42	<b>Dr-ing. Alhassan Salami Tijani</b> <a href="mailto:alhassan@salam.uitm.edu.my">alhassan@salam.uitm.edu.my</a>	Numerical investigation of fluid flow and heat transfer characteristics of an air-cooled twisted pin-finned based heat sinks for electronic cooling	Thermofluids	MSc, PhD
43	<b>Dr-ing. Alhassan Salami Tijani</b> <a href="mailto:alhassan@salam.uitm.edu.my">alhassan@salam.uitm.edu.my</a>	Thermal modeling of the effect of varying angle of micro pin fins and fin spacing on force convection of twisted pin-finned based heat sinks for electronic cooling	Thermofluids	MSc, PhD
44	<b>Dr-ing. Alhassan Salami Tijani</b> <a href="mailto:alhassan@salam.uitm.edu.my">alhassan@salam.uitm.edu.my</a>	Thermal Analysis of Porous Pin-Fins under Forced Convection Condition	Thermofluids	MSc, PhD
45	<b>Dr-ing. Alhassan Salami Tijani</b> <a href="mailto:alhassan@salam.uitm.edu.my">alhassan@salam.uitm.edu.my</a>	Themal analysis of the effect of fouling on thermal characteristics of nanofluids in shell and tube heat exchanger	Thermofluids	MSc, PhD

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No.	Supervisor	Research Title	Area	Level
46	<b>Dr-ing. Alhassan Salami Tijani</b> <a href="mailto:alhassan@salam.uitm.edu.my">alhassan@salam.uitm.edu.my</a>	Enhancement of Heat Transfer Characteristics and friction factor correlations of Al <sub>2</sub> O <sub>3</sub> Nanofluid in Automobile car radiator: Geometrical modeling using Computational fluid dynamics (CFD)	Thermofluids	MSc, PhD
47	<b>Dr-ing. Alhassan Salami Tijani</b> <a href="mailto:alhassan@salam.uitm.edu.my">alhassan@salam.uitm.edu.my</a>	Enhancement of Heat Transfer Characteristics and friction factor correlations of Al <sub>2</sub> O <sub>3</sub> Nanofluid in Automobile car radiator: Geometrical modeling using Computational fluid dynamics (CFD)	Thermofluids	MSc, PhD
48	<b>Assoc. Prof Dr Aidah Jumahat</b> <a href="mailto:aidahjumahat@salam.uitm.edu.my">aidahjumahat@salam.uitm.edu.my</a>	Metal wire veil reinforced FRP sandwich composites	Mechanics & Material	PhD
49	<b>Dr. Zuraidah Salleh</b> <a href="mailto:szuraidah@salam.uitm.edu.my">szuraidah@salam.uitm.edu.my</a>	Fatigue life on Resistant spot welding due to Low blow impact treatment	Mechanics & Material	PhD
50	Dr. Zuraidah Salleh <a href="mailto:szuraidah@salam.uitm.edu.my">szuraidah@salam.uitm.edu.my</a>	Study on CoNiFe coating on stainless steel coupling	Mechanics & Material	MSc
51	Dr. Idris Saad <a href="mailto:edris_sd@salam.uitm.edu.my">edris_sd@salam.uitm.edu.my</a>	Diesel Engine Run With Alternates BioFuels	Thermofluids	MSc, PhD

**THANK YOU**