

PhD & MPhil Topics for New Intakes Sem 1 2021/2022 onward - School of Mechanical Engineering,

No.	Supervisor Name	Email Address	Research Field	Research Topic	Allowance	MPhi;/PhD	Commencement Date
1	Dr. Mohd Ibthisham Ardani	ibthisham@utm.my	LIHTIUM ION BATTERY	Electrochemical Performance Invetigation Of Multi-Dimensional Thermal Transport Experienced By Lithium-Ion Batteries By Employing An Isothermal Approach	Yes	PhD	Sept 2021
2	Dr. Wong Keng Yinn	kengyinnwong@utm.my	INDOOR ENVIRONMENT/ INDOOR AIR QUALITY	Human's Movement Effects On Particle Dispersion At Hospital's Emergency Department Walkway	Yes	PhD	Oct 2021
3	Assoc. Prof. Dr. Shukur Abu Hassan	shukur@utm.my	COMPOSITES DESIGN	Biomimetics Approach in Designing a Composites Harvesting Pole for Oil Palm Plantation	No	PhD	Jan 2022
4	Assoc. Prof. Dr. Shukur Abu Hassan	shukur@utm.my	COMPOSITES DESIGN	Biomimetics Design Approach for Bullet Proof Shield Improvement	No	PhD	Jan 2022
5	Assoc. Prof. Dr. Shukur Abu Hassan	shukur@utm.my	COMPOSITES STRUCTURE	Mechanical Behaviour and Properties of Tin Slag Polymer Concrete Confined with FRP	No	PhD	Jan 2022
6	Dr. Mohd Fairus Mohd Yasin	mohdfairus@utm.my	MATERIALS SCIENCE, COMBUSTION	Multi-scale modelling of carbon nanotube growth in combustion-based systems	Yes	PhD	Nov 2021
7	Dr. Chiong Meng Soon	chiongms@utm.my	RENEWABLE ENERGY	Numerical and experimental investigation of new concept evaporator for Ocean Thermal Energy Conversion	Yes	PhD	Oct 2021
8	Dr. Wan Fahmin Faiz Wan Ali	wan_fahmin@utm.my	MECHANICAL ENGINEERING	Aging phenomenon in Steel Wire Rope	Yes	PhD	Oct 2021
9	Ir. Dr. Shabudin Mat	shabudin@utm.my	AUTOMOTIVE AERODYNAMICS	Unsteady Aerodynamics Measurement if a Generic Automotive Model	No	PhD	Oct 2021
10	Assoc. Prof. Ts. Dr. Muhamad Azizi Mat Yajid	azizi@utm.my	MATERIALS ENGINEERING	Thermal Barrier Coating for high temperature applications	No	PhD	Oct 2021
11	Assoc. Prof. Ts. Dr. Muhamad Azizi Mat Yajid	azizi@utm.my	ADVANCED MATERIALS	Flame retardant aerogel based composite	No	PhD	Oct 2021
12	Dr. Norazila Othman	norazilao@utm.my	AERODYNAMICS, PROPULSION, COMBUSTION, AND OPTIMISATION	Rocket Propulsion Optimisation, Thermodynamics Cycle Optimisation, Computational Analysis on Combustion Fuel Flow	No	PhD	Oct 2021
13	Assoc. Prof. Ts. Dr. Muhamad Azizi Mat Yajid	azizi@utm.my	ADVANCED MATERIALS	Synthesis of aerogel from waste black rice husk	No	MPhil	Oct 2021
14	Dr. Izhari Izmi Mazali	izhariizmi@utm.my	ELECTRIC VEHICLE POWERTRAIN	Control of continuously variable transmission for electric vehicle application	No	MPhil	Oct 2021
15	Ir. Dr. Mohd Nazri bin Mohd Nasir	mnazrimnasir@utm.my	DRONE TECHNOLOGY	Design, installation and testing	Yes	MPhil	Sept 2021
16	Dr. Uday M. Basheer Al-Naib	uday@utm.my	MATERIALS ENGINEERING	Effect of adding Bismuth to brass alloy coated steel cords on tire rubber adhesion	Yes	MPhil	Oct 2021
17	Dr. Uday M. Basheer Al-Naib	uday@utm.my	MATERIALS ENGINEERING	Microstructural and thermoelectric characteristics of Bi-doped Ca ₃ Co ₄ O ₉ fabricated using a sol-gel combustion process	Yes	MPhil	Oct 2021
18	Dr. Uday M. Basheer Al-Naib	uday@utm.my	MATERIALS ENGINEERING	Fabrication and characterization of n-type ZnO doping for energy conversion applications	Yes	MPhil	Oct 2021
19	Dr. Mat Hussin Ab Talib	mathussin@utm.my	CONTROL SYSTEM AND OPTIMIZATION	Formulation of Novel Firefly Scout Bee Algorithm with Fuzzy-Sugeno Controller for Optimal Disturbance Rejection	No	MPhil	Oct 2021
20	Dr. Yaseen Adnan Ahmed	yaseen@mail.fkm.utm.my	ARTIFICIAL INTELLIGENCE, SHIP MANOEUVRING, OPTIMIZATION	Artificial Neural Network Trained With Consistent Teaching data for Automatic Ship Berthing Under Wind Disturbances	No	MPhil	Oct 2021
21	Dr. Yaseen Adnan Ahmed	yaseen@mail.fkm.utm.my	CFD, GREEN ENERGY	Towards a Green Campus/facility- Concept and Feasibility Studies of Hybrid Vertical Axis Wind Turbine (VAWT)	No	MPhil	Oct 2021
22	Ir. Ts. Dr. Mohamad Nur Hidayat Mat	mn.hidayat@utm.my	COMPUTATIONAL FLUID DYNAMICS	Effectiveness of a Surfactant on Nanofluid for a Microchannel Heat Sink Enhancement	No	MPhil	Oct 2021
23	Dr. Mohd Fairus Mohd Yasin	mohdfairus@utm.my	MATERIAL SCIENCE, COMBUSTION	Carbon nanotube synthesis in flame-chemical vapour deposition hybrid system	Yes	MPhil	Nov 2021