

# FOE Postgraduate Research Colloquium Cycle 1 / 2024

**Date:** 4 June 2024

**MS. Team Link:** <https://teams.microsoft.com//meetup->

Time	Student Name	Program	Research Title
9:00am - 9:20am	ONG GUANG LIANG	Doctor of Philosophy (Engineering)	Effect of Carbon-based Nanoparticles in Organic Optoelectronics
9:30am - 9:50am	CHENG YUN QUAN	Master of Engineering Science	Modelling Traffic-Based Driving Simulator using Artificial Intelligence and Virtual Reality Techniques
10:00am - 10:20am	AZMI ABDULLAH AWADH BASAIF	Doctor of Philosophy (Engineering)	Optical Fibre Dosimeter for Brachytherapy
10.30am - 10.50am	Najeeb Ullah	Doctor of Philosophy (Engineering)	Development of Cantilever Beam Based Electromagnetic Energy Harvester for Wireless Sensor
<b>Break-time</b>			
11.10am - 11.30am	SHAMALA A/P MANIAM	Doctor of Philosophy (Engineering)	INVESTIGATION ON THE INTEGRATION CONSIDERATION OF HETEROJUNCTION SENSOR IN A UNIVERSAL
11.40am - 12.00pm	MUHAMMAD AMIR KHALIL	Doctor of Philosophy (Engineering)	Design and Development of Star-Enclosed Circular Shape Metamaterial-based Sensor for Liquid Chemical
<b>Break-time</b>			
2.00pm - 2.20pm	ESTHER LIM HEE YING	Master of Engineering Science	Design, Identification and Control of a Fruit Dehydrator System
2:30pm - 2:50pm	JOY DEWANJEE	Master of Engineering Science	Piezoelectric Based Cantilever Beam Design of Micro Energy Harvester for Autonomous
3.00pm - 3.20pm	AQILAH BINTI MAZLAN	Master of Engineering Science	Machine Learning Based Indoor Positioning System
3:30pm - 3:50pm	CHING JIUN YEN	Master of Engineering Science	Aesthetic-driven Image Recomposition with Scene Completion
<b>Break-time</b>			
4.10pm - 4.30pm	LEE LOO CHUAN	Doctor of Philosophy (Engineering)	Algorithm for Security Threats on Data Centers in IOT Networks
4.40pm - 5.00pm	TEO YAR LEE	Master of Engineering Science	Real-time HVAC System Energy Optimisation using Artificial Intelligence
5.10pm - 5.30pm	MOHAMED MOHSEN FAROUK MOHAMED HUSSEIN	Master of Engineering Science	QoS Provisioning for 5G Mobile Network

**Date:** 5 June 2024

**MS. Team Link:** <https://teams.microsoft.com//meetup->

Time	Student Name	Program	Research Title
9:00am - 9:20am	Ateeq Ul Rehman	Master of Engineering Science	Advanced Materials And Manufacturing Techniques For Lightweight And Efficient Green Vehicles
9:30am - 9:50am	Yasir Ullah	Doctor of Philosophy (Engineering)	Proposed new title: Mobility Management (MM) in 5G Heterogeneous Networks (HetNet), Previous title: D2D Algorithm for Coverage Enhancement of 5G Heterogeneous Network
10:00am - 10:20am	Saad Humayun	Master of Engineering Science	Investigation Of The Impact Of Ray Spawning Algorithms On 3-D Shooting-And-Bouncing Ray Tracing
10.30am - 10.50am	Muhammad Nur Aqmal Bin Khatiman	Master of Engineering Science	Modelling And Artificial Intelligence For Impermanent Superstructured Grating Magnetic Sensor
<b>Break-time</b>			
11.10am - 11.30am	Md Tasadul Islam Hemal	Master of Engineering Science	Sustainable Materials Selection In Manufacturing Processes to Reduce the Environmental Impact
11.40am - 12.00pm	Ikram Benfarhat	Doctor of Philosophy (Engineering)	New Framework Of Numerical Distance Relay Using Labview
12.10pm - 12.30pm	MUHAMMAD UMAIR	Master of Engineering Science	Federated Learning of Spiking Neural Networks for Artificial Intelligence of Things (AIoT)
<b>Break-time</b>			
2.00pm - 2.20pm	TOH KHENG HIN	Doctor of Philosophy (Engineering)	18bit Absolute Encoder Application Specific Integrated Circuit (ASIC) Design for Motion Control Application
2:30pm - 2:50pm	Low Pei Ling	Doctor of Philosophy (Engineering)	Realisation of Thin Film based Perovskite Solar Cells using Solution Deposition Method
3.00pm - 3.20pm	ABDULLAH HADI YAHYA ALQUHALI	Doctor of Philosophy (Engineering)	Flying Ad-Hoc Networks
3:30pm - 3:50pm	NURUL AIN BINTI ABDUL AZIZ	Master of Engineering Science	DEEP-LEARNING BASED ROAD HEALTH MONITORING THROUGH DISTRIBUTED FIBRE SENSING
<b>Break-time</b>			
4.10pm - 4.30pm	NGO HONG YEAP	Master of Engineering Science	Machine Learning based Road Health Monitoring using Optical Fibre Technology
4.40pm - 5.00pm	MD NAJMUL HASAN	Master of Engineering Science	Smart Poultry Farm Monitoring System using Internet of Things (IoT)

**Date:** 6 June 2024  
**MS. Team Link:** <https://teams.microsoft.com/l/meetup->

Time	Student Name	Program	Research Title
9:00am - 9:20am	AIDA DIYANAH BINTI ABDUL LATIF	Master of Engineering Science	CONTACTLESS FIBER OPTIC SENSING FOR FLUID CLASSIFICATION USING IMPERMANENT SUPER STRUCTURED GRATING
9:30am - 9:50am	FAZLUL AMAN	Master of Engineering Science	Characterisations of Enhancement Materials for Grounding Systems
10:00am - 10:20am	AMIN KHODAEI	Doctor of Philosophy (Engineering)	Optical Fibre Dosimetry
<b>Break-time</b>			
11.10am - 11.30am	WASSEM IBRAHIM ABDELHAMID ELDUSUQI ALTABAJI	Master of Engineering Science	Identification of Leaf Diseases and Pest Detection for Smart Farming
11.40am - 12.00pm	Farzana Sharmin Nila	Master of Engineering Science	Design And Development Of An Embedded Iot System For Digital Twin
12.10pm - 12.30pm	FAREHA NIZAM	Doctor of Philosophy (Engineering)	RESOURCE ALLOCATION TECHNIQUES TOWARD NEXT-GENERATION FIXED-MOBILE CONVERGENCE FOR RURAL CONNECTIVITY
12.40pm - 1.00pm	SIDDIQUEE KAZY NOOR E ALAM	Doctor of Philosophy (Engineering)	SMART AGRICULTURE MONITORING SYSTEM USING HYBRID ENERGY HARVESTING INTERNET OF THINGS
<b>Break-time</b>			
2.00pm - 2.20pm	CAI BIN	Doctor of Philosophy (Engineering)	Quality Control of Outdoor Pipeline Engineering in Nuclear Power Plants in China
2:30pm - 2:50pm	MD ZUBAIR HASSAN TARIF	Doctor of Philosophy (Engineering)	Intelligent Dosimetry System: Fibre Optic Coupled Radiation Sensor with Self- calibration and Anomaly Detection
3.00pm - 3.20pm	TAN HUI HUI	Master of Engineering Science	Thermal Comfort vs Energy Consumption Analytic and Optimisation Algorithm
3:30pm - 3:50pm	KHOW ZU JUN	Master of Engineering Science	Tubular Interiors Inspection through Artificial Intelligence Vision-Based Algorithm