

Doctor of Philosophy (Science) at LKC FES (Sg.Long Campus)

Programme Structures

By Research: 2 Compulsory modules (6 credit hours) + Thesis

Details of Units:

No.	Unit Code	Unit Title	Type	Credit Hours
1	DEGC10100	Thesis	Core	0
2	DEGG10203	Directed Readings in Science and Engineering	Core	3
3	DEGG10303	Research Methods in Science and Engineering	Core	3

Intakes: Open throughout the year

Duration:

Full-time:

Normal 3 years; Maximum 6 years

Part-time:

Normal 4 years; Maximum 8 years

Indicative Fee (RM)

Malaysian

Full-time: RM 8,100.00

Part-time: RM 9,300.00

International

Full-time: RM17, 716.00

Mode of Study: By Research

Head of Programme

Dr Leong Loong Kong,

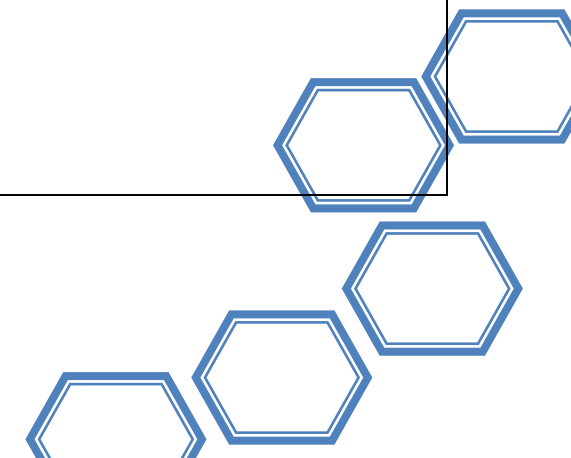
leonglk@utar.edu.my

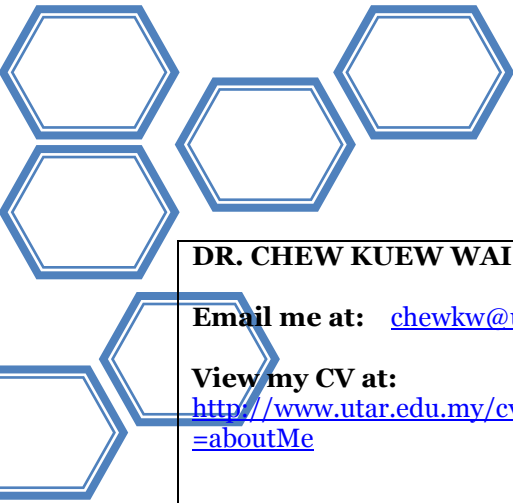


LIST OF QUALIFIED TEACHING LECTURERS/SUPERVISOR

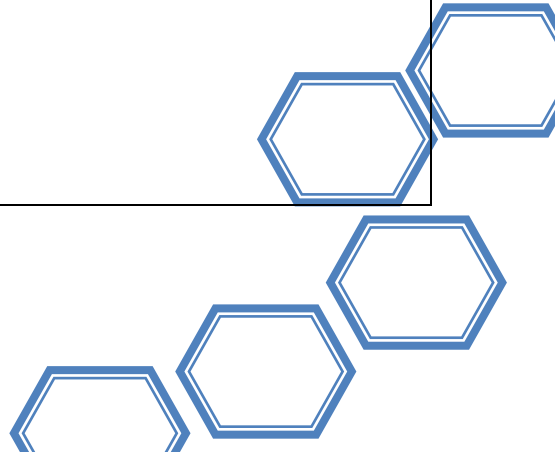
(applicant is advised to discuss with potential supervisor before preparing the research proposal)

<p>Dr Tay Yong Hau</p> <p>Email me at: tayyh@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=tayyh</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Artificial Intelligence• C/C++• Computer Programming• Computer Vision• Deep Learning• Handwriting Recognition• Image Processing• Intelligent Transport Systems• Low-level computer programming• Machine Learning• Neural Networks• Pattern Recognition
<p>Ir Dr Lee Tin Sin</p> <p>Email me at: leets@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=leets</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Biodegradable polymers• Injection moulding simulation• Polymer characterizations• Polymer nanocomposites
<p>DR LEONG LOONG KONG</p> <p>Email me at: leonglk@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=leonglk&reqPageId=aboutMe</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Advanced Materials• Heterogeneous Catalysis• Petrochemical Processes• Selective Oxidation• Surface Science



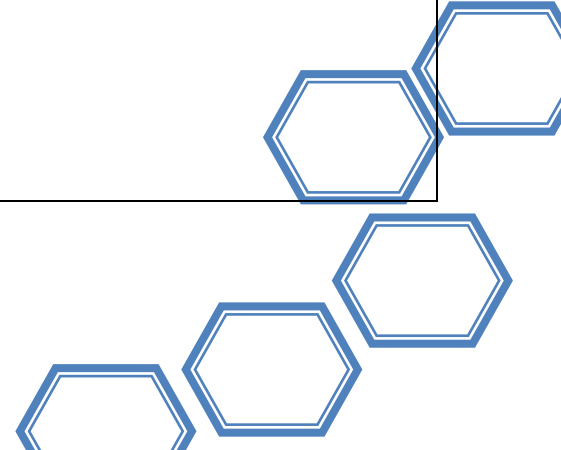


<p>DR. CHEW KUEW WAI</p> <p>Email me at: chewkw@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=chewkw&reqPageId=aboutMe</p>	<p>RESEARCH AREA / EXPERTISE</p> <p>Electric Vehicle Related Research:</p> <ul style="list-style-type: none">• EV as distributed energy storage device that flatten the peak demand curve.• V2G and G2V communication protocol design and implementation for smart grid and EV.• Distance Estimation System for an EV.• Cell balancing and fault detection for EV's battery system.• Integration of SC into EV battery system to enhance the energy usage efficiency.• EV as center micro-grid for energy harvesting system and distribution. <p>Materials related research:</p> <ul style="list-style-type: none">• Polymer electrolyte for lithium based polymer electrolyte• Novel biodegradable polymer system for lithium batteries.•
<p>Dr. Huang Yuk Feng</p> <p>Email me at: huangyf@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=huangyf</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Water resources / Hydrology• Hydraulics
<p>DR. LAI AN CHOW</p> <p>Email me at laiac@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=laiac&reqPageId=aboutMe</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• High Performance Computer Architecture• Embedded System and Control• Sensor Networks and Applications
<p>Ir. DR. LEE MIN LEE</p> <p>Email me at: mllee@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=mllee</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Microbial soil improvement• Rainfall-induced landslide• Soil seepage analysis• Unsaturated soil mechanics



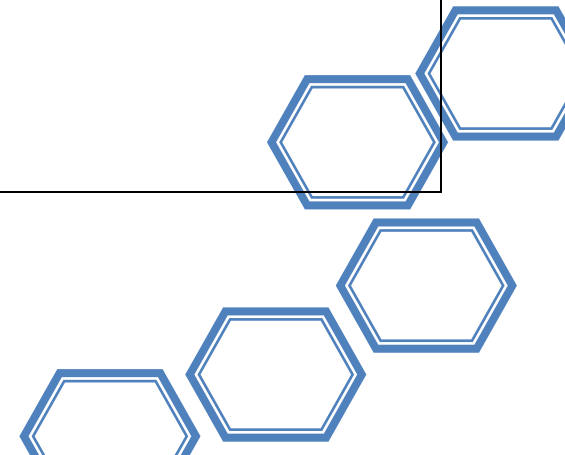


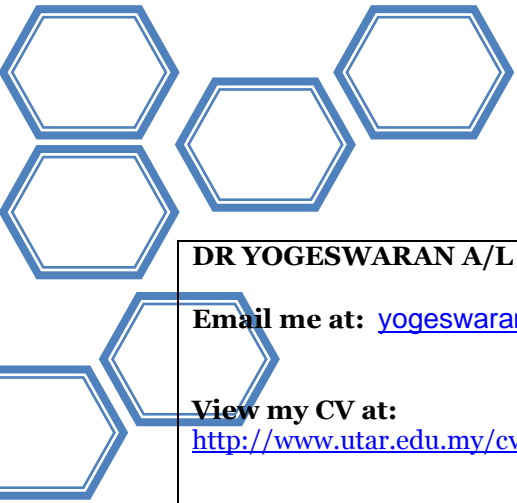
<p>DR. LEE KHIA MIN</p> <p>Email me at: leekm@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=leekm</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Biological waste water treatment• Management of agriculture waste• Membrane technology• Water quality assessment
<p>Ir Dr Ng See Seng</p> <p>Email me at: ngss@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=ngss</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Sustainable Development in the Construction Industry• Outcome-based Education in Engineering Programs
<p>Ir. Dr. Ng Soon Ching</p> <p>Email me at: ngsc@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=ngsc</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Lightweight concrete and concrete technology• Energy efficient construction• Soft ground engineering• Green and sustainable construction• Industrialised building system
<p>Dr. Sim Jia Huey</p> <p>Email me at: simjh@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=simjh</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Renewable Energy: Biofuels• Chemical and Enzymatic Catalysis• Fermentation Technology• Membrane Separation Technology
<p>DR TAN ENG KIANG</p> <p>Email me at: tanek@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=tanek</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Foundations of Quantum Mechanics• Quantum Optics• Quantum Measurement• Condensed Matter Physics: Ferroelectrics



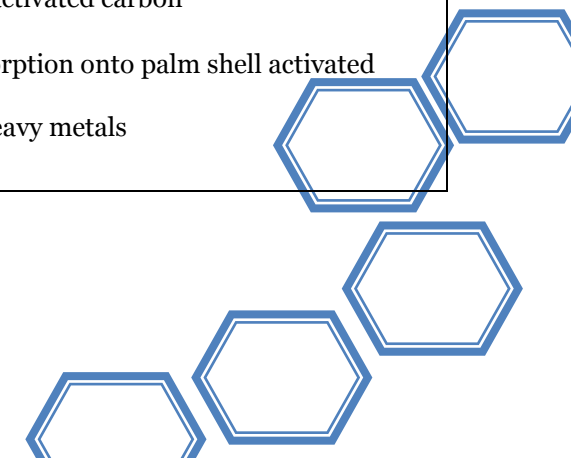


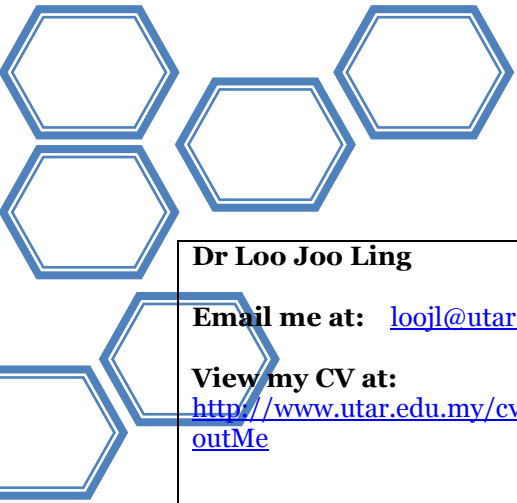
<p>DR. VICTOR TAN</p> <p>Email me at: hktan@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=hktan</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Cloud and Distributed Computing• Network Security Infrastructure
<p>DR. YEO HENG GIAP IVAN</p> <p>Email me at: yeohg@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=yeohg</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Operations Research• Deterministic Inventory Models
<p>Dr. LIM SOO KING</p> <p>Email me at: limsk@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=limsk</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• ESD and EOS• Process capability indices• Semiconductor Fabrication/Assembly/Test Processes• SPC (statistical process control)• Uncertainty measurement• VLSI Design
<p>Ir DR LEE WAH PENG</p> <p>Email me at: leewp@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=leewp</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Project Management
<p>DR KONG SIN GUAN</p> <p>Email me at: kongsg@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=kongsg</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Bioinformatics• Biostatistics• Computational Biology• Laser Optical Tweezer• Phylogeny Analysis• Systems biology





<p>DR YOGESWARAN A/L MOHAN</p> <p>Email me at: yogeswaran@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=yogeswaran</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Artificial Intelligence• C/C++• Image Processing• PHP, MySQL• Reinforcement Learning• Swarm Robotics• Ultrasonic Cleaning
<p>DR LEE JER VUI</p> <p>Email me at: leejv@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=leejv</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• AI and Robotics• Computer Assisted Learning and E-Learning• Engineering Education, Learning Environment, Constructivist Learning and Game-based Learning• Manufacturing Automation and Laser Material Processing• Modeling, Simulation and Visualization
<p>DR LEE POH FOONG</p> <p>Email me at: leepf@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=leepf&reqPageId=aboutMe</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Brainwaves with EEG analysis on depression• Lab on chip on biomedical area• Microfluidic• Plasma technology• Surface Charge Unicellular Cell, Nanogold cancer treatment
<p>Dr Gulnaziya Issabayeva</p> <p>Email me at: gulnaziya@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=gulnaziya&reqPageId=aboutMe</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Adsorption of heavy metals• Adsorption properties of palm shell activated carbon• Electrodeposition of heavy metals• Removal of heavy metals by Electrosorption onto palm shell activated carbon• Wastewater treatment: removal of heavy metals





<p>Dr Loo Joo Ling</p> <p>Email me at: loojl@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=loojl&reqPageId=aboutMe</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Aquaculture Engineering• Aquaculture Feed and Nutrition• Biosensors• Enzyme and Food Biotechnology• Food Processing• Natural Products
<p>DR NG OON-EE</p> <p>Email me at: ngoe@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=ngoe</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Artificial Intelligence• Computer Vision• Image Processing• Optimization• Robotic Kinematics• Statistics• Stereo Vision

