

Master of Science at Lee Kong Chian Faculty of Engineering & Science

Programme Structure

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

Details of Units:

No	Unit Code	Unit Title	Type	Credit Hours
1	MEGA10100	Thesis	Core	0
2	MEGG10203	Directed Readings in Science and Engineering	Compulsory	3
3	MEGG10303	Research Methods in Science and Engineering	Compulsory	3

Intakes: Open throughout the year

Duration

Full-time:

Normal: 2 year; Maximum 4 years

Part-time:

Normal: 3 years; Maximum 6 years

Indicative Fee (RM)

Malaysian

Full-time: RM 8,048.00

Part-time: RM 7,657.00

International

Full-time: RM12, 316.00

Mode of Study: By Research

Head of Programme

Dr Leong Loong Kong

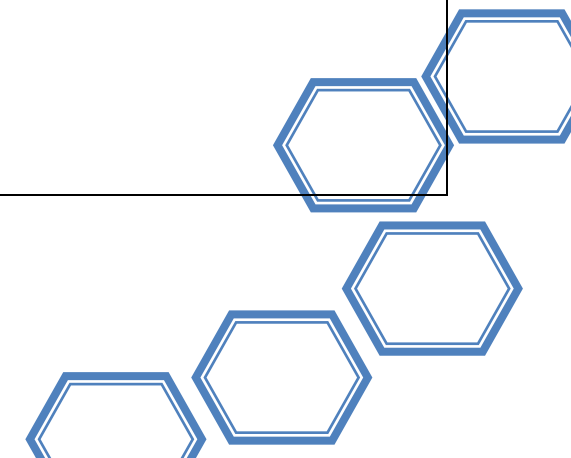
leonglk@utar.edu.my

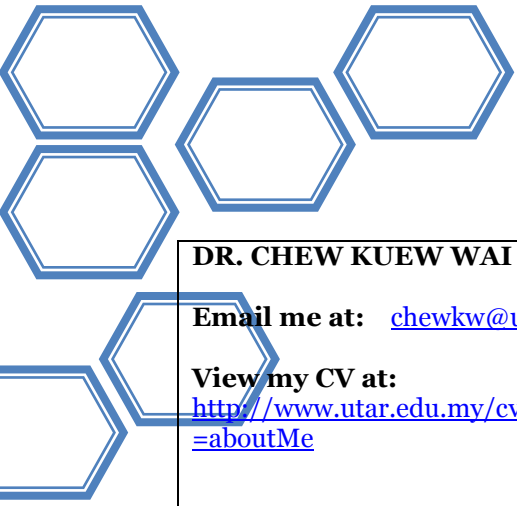


List of qualified teaching lecturers/supervisor

(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





DR. CHEW KUEW WAI

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<http://www.utar.edu.my/cv/index.jsp?cv=chewkw&reqPageId=aboutMe>

RESEARCH AREA / EXPERTISE

- Electric Vehicle Related Research:
- 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.
- Materials related research:
- Polymer electrolyte for lithium based polymer electrolyte
 - Novel biodegradable polymer system for lithium batteries.
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Dr. Huang Yuk Feng

Email me at: huangyf@utar.edu.my

View my CV at:
<http://www.utar.edu.my/cv/index.jsp?cv=huangyf>

RESEARCH AREA / EXPERTISE

- Water resources / Hydrology
- Hydraulics

DR. LAI AN CHOW

Email me at laiac@utar.edu.my

View my CV at:
<http://www.utar.edu.my/cv/index.jsp?cv=laiac&reqPageId=aboutMe>

RESEARCH AREA / EXPERTISE

- High Performance Computer Architecture
- Embedded System and Control
- Sensor Networks and Applications

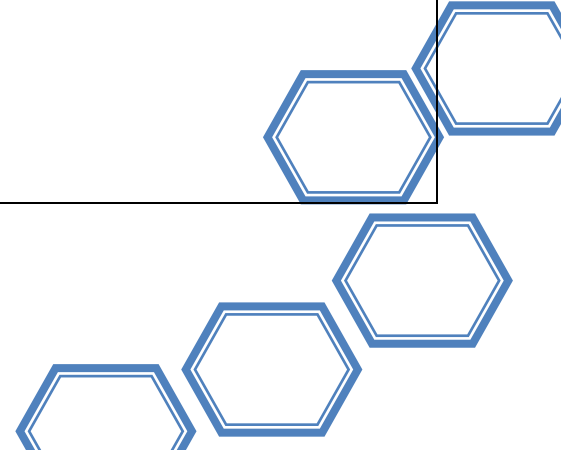
Ir. DR. LEE MIN LEE

Email me at: mllee@utar.edu.my

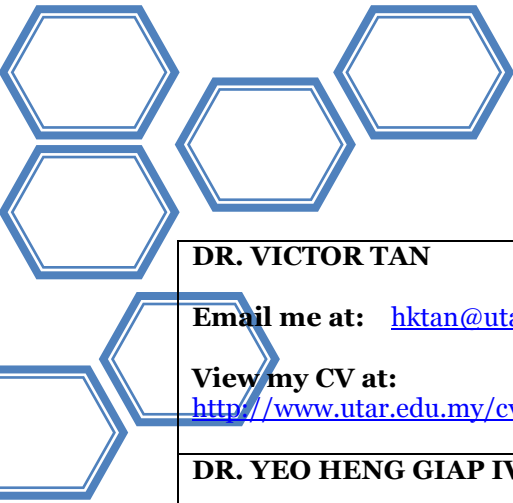
View my CV at:
<http://www.utar.edu.my/cv/index.jsp?cv=mllee>

RESEARCH AREA / EXPERTISE

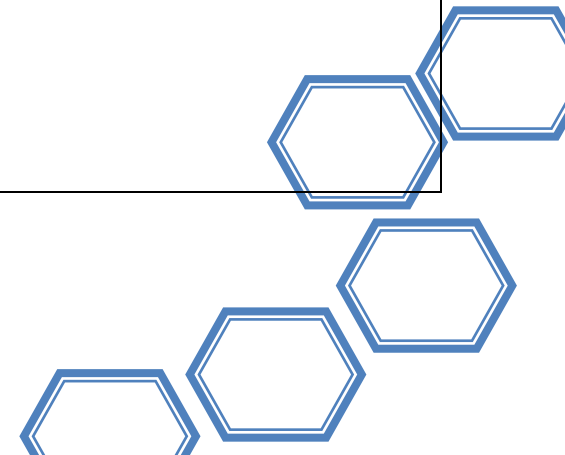
- Microbial soil improvement
- Rainfall-induced landslide
- Soil seepage analysis
- Unsaturated soil mechanics



<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

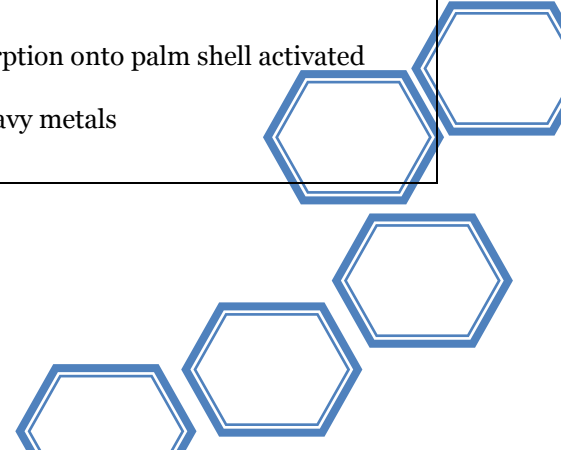


<p>DR. VICTOR TAN</p> <p>Email me at: hktan@utar.edu.my</p> <p>View my CV at: http://www.utar.edu.my/cv/index.jsp?cv=hktan</p>	<p>RESEARCH AREA / EXPERTISE</p> <ul style="list-style-type: none">• Cloud and Distributed Computing• Network Security Infrastructure
<p>DR. YEO HENG GIAP IVAN</p> <p>Email me 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

