

# Master of Engineering (Mechanical) at LKC FES (Sg Long Campus)

## Programme Structure

By Coursework and Project :

Coursework (Credit hours: 30) : 4 major + 6 electives; and  
Project (Credit hours: 10)

Details of Courses:

No.	Course Code	Course Title	Type	Credit Hours
1	METG10303	Research Methodology	Compulsory	3
2	METJ15203	Advance Materials Engineering	Major	3
3	METJ15303	Advance Manufacturing Systems	Major	3
4	METJ15403	Product Design & Development	Major	3
5	METJ25110	Project	Major	10
6	MEXYYYY03	Electives (EE & ERE)	Elective	18

**Head of Programme**

**Dr Khaw Chwin Chieh**

Email: [khawcc@utar.edu.my](mailto:khawcc@utar.edu.my)

**EE - Engineering Elective (Choose **FOUR to FIVE** only)**

1. METJ16103 Advanced Mechanical Vibration
2. METJ16203 Advanced Thermodynamics Systems
3. METJ16303 Advanced Computational Fluid Dynamics
4. METJ16403 Advanced Finite Element Analysis and Applications
5. METJ26303 Rare Earth Elements: Applications And Environmental Implications
6. METJ26403 Advanced Fluid Dynamics
7. METJ26503 Fluids Mechanics of Particles
8. METJ26603 Renewable Energy
9. METJ26703 Corrosion of Materials
10. METJ26903 Nanotechnology
11. MEEK25203 Nuclear Engineering

**ERE - Engineering Related Elective (Choose **ONE to TWO** only)**

1. METJ26803 Workplace Safety and Health
2. MEBH16303 Strategic Management
3. MEBH16403 Project Financial Management
4. MEBH16503 Information Security Over Internet
5. MEBH15303 Project Time, Cost and Quality Management
6. MEBH15403 Project Human Resource Management
7. MEBH15503 Project Risk and Procurement Management
8. MEBH15603 Project Knowledge & Communication Management

**Intakes: Jan & May**

**Duration**

Full-time: Minimum 1 year; Maximum 4 years

Part-time: Minimum 2 years; Maximum 6 years

**Indicative Fee (RM)**

**Malaysian**

Full-time: RM 17,300.00

Part-time: RM 17,900.00

**International**

Full-time: RM26,440.00

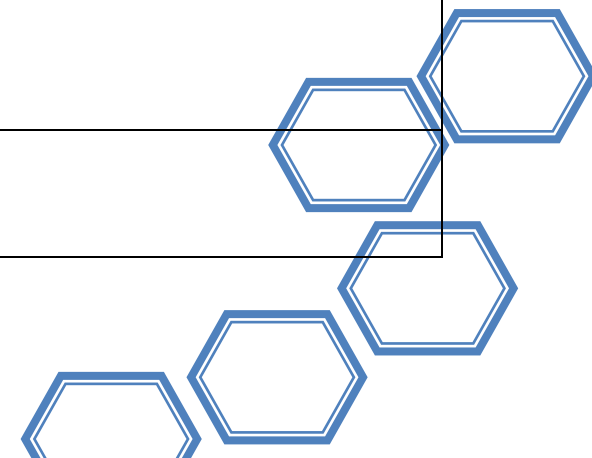
## **LIST OF QUALIFIED TEACHING LECTURERS/SUPERVISOR**

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

<p><b>Dr. Lee Hwang Sheng</b></p> <p>Email me at: <a href="mailto:leehs@utar.edu.my">leehs@utar.edu.my</a></p> <p>View my CV at: <a href="http://www.utar.edu.my/cv/index.jsp?cv=leehs&amp;reqPageId=aboutMe">http://www.utar.edu.my/cv/index.jsp?cv=leehs&amp;reqPageId=aboutMe</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"><li>• Electronic Packaging Failure Analysis</li><li>• Energy Storage - Lithium-ion Battery</li><li>• Nanostructured Materials</li></ul>
<p><b>Mr. King Yeong Jin</b></p> <p>Email me at: <a href="mailto:kingyj@utar.edu.my">kingyj@utar.edu.my</a></p> <p>View my CV at: <a href="http://www.utar.edu.my/cv/index.jsp?cv=kingyj&amp;reqPageId=aboutMe">http://www.utar.edu.my/cv/index.jsp?cv=kingyj&amp;reqPageId=aboutMe</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"><li>• Acoustic and Vibration Measurement</li><li>• Offshore Mechanical Technology</li><li>• Research on Noise and Vibration</li></ul>
<p><b>Prof. Dr. Rajkumar a/l Durairaj</b></p> <p>Email me at: <a href="mailto:rajkumar@utar.edu.my">rajkumar@utar.edu.my</a></p> <p>View my CV at: <a href="http://www.utar.edu.my/cv/index.jsp?cv=rajkumar&amp;reqPageId=aboutMe">http://www.utar.edu.my/cv/index.jsp?cv=rajkumar&amp;reqPageId=aboutMe</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"><li>• Conductive Adhesives</li><li>• Electronics Manufacturing</li><li>• Electronics Material</li><li>• Nano-materials</li><li>• Rheology</li></ul>
<p><b>Dr. Tan Yong Chai</b></p> <p>Email me at: <a href="mailto:tanyc@utar.edu.my">tanyc@utar.edu.my</a></p> <p>View my CV at: <a href="http://www.utar.edu.my/cv/index.jsp?cv=tanyc&amp;reqPageId=aboutMe">http://www.utar.edu.my/cv/index.jsp?cv=tanyc&amp;reqPageId=aboutMe</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"><li>• Product Design</li><li>• Automation</li><li>• Expert Systems</li></ul>
<p><b>Prof. Dato' Ir. Dr. Goh Sing Yau</b></p> <p>Email me at: <a href="mailto:gohsy@utar.edu.my">gohsy@utar.edu.my</a></p> <p>View my CV at: <a href="http://www.utar.edu.my/cv/index.jsp?cv=gohsy&amp;req">http://www.utar.edu.my/cv/index.jsp?cv=gohsy&amp;req</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"><li>• Neuroscience</li><li>• Brain-Computer Interface</li></ul>



<p><a href="#">PageId=aboutMe</a></p> <p><b>Dr. Ng Teong Kuen @ Wang Chan Chin</b></p> <p>Email me at: <a href="mailto:wangcc@utar.edu.my">wangcc@utar.edu.my</a></p> <p>View my CV at: <a href="http://www.utar.edu.my/cv/index.jsp?cv=wangcc&amp;reqPageId=aboutMe">http://www.utar.edu.my/cv/index.jsp?cv=wangcc&amp;reqPageId=aboutMe</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"><li>• Solid Mechanics</li><li>• Computational Mechanics</li><li>• Metal Forming</li></ul>
<p><b>Ir Dr. Lim Ying Pio</b></p> <p>Email me at: <a href="mailto:limyp@utar.edu.my">limyp@utar.edu.my</a></p> <p>View my CV at: <a href="http://www.utar.edu.my/cv/index.jsp?cv=limyp&amp;reqPageId=aboutMe">http://www.utar.edu.my/cv/index.jsp?cv=limyp&amp;reqPageId=aboutMe</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"><li>• Aluminium alloys</li><li>• Die casting process</li><li>• Mould design</li></ul>
<p><b>Dr. Lai Soon Onn</b></p> <p>Email me at: <a href="mailto:laiso@utar.edu.my">laiso@utar.edu.my</a></p> <p>View my CV at: <a href="http://www.utar.edu.my/cv/index.jsp?cv=laiso&amp;reqPageId=aboutMe">http://www.utar.edu.my/cv/index.jsp?cv=laiso&amp;reqPageId=aboutMe</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"><li>• Computational fluid dynamics</li><li>• Air and water pollution monitoring and control</li></ul>
<p><b>Dr. Jun Hieng Kiat</b></p> <p>Email me at: <a href="mailto:junhk@utar.edu.my">junhk@utar.edu.my</a></p> <p>View my CV at: <a href="http://www.utar.edu.my/cv/index.jsp?cv=junhk&amp;reqPageId=aboutMe">http://www.utar.edu.my/cv/index.jsp?cv=junhk&amp;reqPageId=aboutMe</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"><li>• Nanomaterials</li><li>• Polymer electrolyte</li><li>• Sensitized-solar cell</li><li>• EIS</li></ul>
<p><b>Dr. Khaw Chwin Chieh</b></p> <p>Email me at: <a href="mailto:khawcc@utar.edu.my">khawcc@utar.edu.my</a></p> <p>View my CV at: <a href="http://www.utar.edu.my/cv/index.jsp?cv=khawcc&amp;reqPageId=aboutMe">http://www.utar.edu.my/cv/index.jsp?cv=khawcc&amp;reqPageId=aboutMe</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"><li>• Electroceramics</li><li>• Solar cell</li></ul>
<p><b>Dr. Liang Meng Suan</b></p> <p>Email me at: <a href="mailto:liangms@utar.edu.my">liangms@utar.edu.my</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"><li>• Compressive test on materials</li><li>• Dye-sensitized solar cell</li></ul>



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<p><b>Dr. Chen Kah Pin</b></p> <p><b>Email me at:</b> <a href="mailto:chenkp@utar.edu.my">chenkp@utar.edu.my</a></p> <p><b>View my CV at:</b>  <a href="http://www.utar.edu.my/cv/index.jsp?cv=chenkp&amp;reqPageId=aboutMe">http://www.utar.edu.my/cv/index.jsp?cv=chenkp&amp;reqPageId=aboutMe</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"> <li>• Polymer Solar Cell</li> <li>• Nanomaterials</li> </ul>
<p><b>Dr. Yong Thian Khok</b></p> <p><b>Email me at:</b> <a href="mailto:yongtk@utar.edu.my">yongtk@utar.edu.my</a></p> <p><b>View my CV at:</b>  <a href="http://www.utar.edu.my/cv/index.jsp?cv=yongtk&amp;reqPageId=aboutMe">http://www.utar.edu.my/cv/index.jsp?cv=yongtk&amp;reqPageId=aboutMe</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"> <li>• Digital Holography</li> <li>• Optical and Holographic Sensors</li> <li>• Organic LED</li> <li>• Thin Film Coating (e.g. pulsed laser deposition, sputtering, ...)</li> </ul>
<p><b>Mr. Tee Peck Ling</b></p> <p><b>Email me at:</b> <a href="mailto:teepl@utar.edu.my">teepl@utar.edu.my</a></p> <p><b>View my CV at:</b>  <a href="http://www.utar.edu.my/cv/index.jsp?cv=teepl&amp;reqPageId=aboutMe">http://www.utar.edu.my/cv/index.jsp?cv=teepl&amp;reqPageId=aboutMe</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"> <li>• Foreign Ownership</li> <li>• Firm Capital Structure</li> <li>• Stock Pricing Models</li> </ul>
<p><b>Mr. Ng Kean Kok</b></p> <p><b>Email me at:</b> <a href="mailto:ngkk@utar.edu.my">ngkk@utar.edu.my</a></p> <p><b>View my CV at:</b>  <a href="http://www.utar.edu.my/cv/index.jsp?cv=ngkk&amp;reqPageId=aboutMe">http://www.utar.edu.my/cv/index.jsp?cv=ngkk&amp;reqPageId=aboutMe</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"> <li>• Risk Management</li> <li>• Fair Value Accounting</li> <li>• Firm Capital Structure</li> <li>• Corporate Diversification Effects on Firm Value</li> <li>• Financial accounting and reporting practices</li> <li>• Corporate Social Responsibility</li> </ul>
<p><b>Mr Yap Wun She</b></p> <p><b>Email me at:</b> <a href="mailto:yapws@utar.edu.my">yapws@utar.edu.my</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"> <li>• Information Security</li> <li>• Cryptography</li> </ul>



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<p>Ir. Dr. Lee Wah Peng</p> <p>Email me at: <a href="mailto:leewp@utar.edu.my">leewp@utar.edu.my</a></p> <p>View my CV at: <a href="http://www.utar.edu.my/cv/index.jsp?cv=leewp&amp;reqPageId=aboutMe">http://www.utar.edu.my/cv/index.jsp?cv=leewp&amp;reqPageId=aboutMe</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"><li>• Industrialised building system (IBS)</li><li>• Quantity surveying</li><li>• Project Management</li></ul>
<p>Mr. Lim Chai Chai</p> <p>Email me at: <a href="mailto:limcc@utar.edu.my">limcc@utar.edu.my</a></p> <p>View my CV at: <a href="http://www.utar.edu.my/cv/index.jsp?cv=limcc&amp;reqPageId=aboutMe">http://www.utar.edu.my/cv/index.jsp?cv=limcc&amp;reqPageId=aboutMe</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"><li>• Contract Administration</li><li>• Construction Project Management</li><li>• Procurement Management</li><li>• Risk Management</li></ul>
<p>Ir. Jeffrey Yap Boon Hui</p> <p>Email me at: <a href="mailto:bhyap@utar.edu.my">bhyap@utar.edu.my</a></p> <p>View my CV at: <a href="http://www.utar.edu.my/cv/index.jsp?cv=bhyap&amp;reqPageId=aboutMe">http://www.utar.edu.my/cv/index.jsp?cv=bhyap&amp;reqPageId=aboutMe</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"><li>• Knowledge Management in construction</li><li>• Project Management</li><li>• Property Development</li><li>• Structural Engineering Management</li></ul>
<p>Dr Wong Hong Chau</p> <p>Email me at: <a href="mailto:wonghc@utar.edu.my">wonghc@utar.edu.my</a></p> <p>View my CV at: <a href="http://www.utar.edu.my/cv/index.jsp?cv=wonghc&amp;reqPageId=aboutMe">http://www.utar.edu.my/cv/index.jsp?cv=wonghc&amp;reqPageId=aboutMe</a></p>	<p><b>RESEARCH AREA / EXPERTISE</b></p> <ul style="list-style-type: none"><li>• Financial sector and economic development</li></ul>

