

NAME: MOHD AL-FATIHHI BIN MOHD SZALI JANUDDI  
POSITION: SENIOR LECTURER  
DEPARTMENT/SECTION: FACILITIES MAINTENANCE ENGINEERING  
OFFICIAL EMAIL: mohdalfatihhi@unikl.edu.my  
SECOND EMAIL: alfatihhi@gmail.com  
OFFICE NO.:  
EXT. NO.:  
H/P: 017-7619238  
FAX NO.:  
GENDER: MALE  
NATIONALITY: MALAYSIAN  
DATE OF BIRTH: 01-01-1986  
PLACE OF BIRTH: TERENGGANU  
MATERIAL STATUS: MARRIED  
WEBSITE:  
ADDRESS:  
RESEARCH GATE: [https://www.researchgate.net/profile/Fatihhi\\_Sj](https://www.researchgate.net/profile/Fatihhi_Sj)

LINKEDIN:

GOOGLE SCHOLAR:

<https://scholar.google.com/citations?user=0RIXLOEAAAAJ&hl=en>

ORCID ID : 0000-0002-7905-1913

ResearchGate : Fatihhi\_Sj

ResearcherID : M-3121-2016

EDUCATION / ACADEMIC QUALIFICATION:

B.Eng (Mechanical Engineering – Industrial), Ph.D (Mechanical Engineering)

EMPLOYMENT (WORKING EXPERIENCE):

2005 – 2008: Assistant Manager (Fish & Co. Pvt. Ltd.) (Part time)

2008 – 2009: Assistant Production Engineer (Sasabina Recreation & Industries Sdn Bhd) (Full time)

2011: Assistant Research Officer (ARO) (UTM)

2014 – 2015: Research Assistant (RA) (UTM)

EXPERTISE (RESEARCH AREA):

*FSI and Computational Fluid Dynamics (CFD)*

*Fatigue and Fracture Mechanics*

*Thermodynamics and Heat Transfer*

*Biomechanics and Biomedical Modelling*

*FEA and mathematical modelling*

RESEARCH PROJECTS/GRANTS:

Project Title: “Feasibility Study on Green Machining Process of Powder Metallurgy Materials by Micromachining Approach”- Short Term Research Grant (STRG)

SUPERVISION:

LANGUAGES: Malay and English

TEACHING AND LEARNING:

Hydraulic & Pneumatic Control System

HVAC 1: Applied Thermodynamic & Air-Conditioning System

Mechanical & Electrical Building System

Engineering Drawing & CAD

SELECTED PUBLICATIONS:

Enhanced wide range monotonic piezoresistivity, reliability of Ketjenblack/deproteinized natural rubber nanocomposite, and its biomedical application

2017

J Madhanagopal, OP Singh, S Sornambikai, AH Omar, KV Sathasivam, Fatihhi S.J.  
Journal of Applied Polymer Science 134, 44981

Effect of Torsional Loading on Compressive Fatigue Behaviour of Trabecular Bone

2016

SJ Fatihhi, AAR Rabiatul, MN Harun, MRA Kadir, T Kamarul, A Syahrom  
Journal of the Mechanical Behavior of Biomedical Materials 54, 21-32

Mg-based porous metals as cancellous bone analogous material: A review

2015

MRAK N Jasmawati, SJ Fatihhi, AMS Putra, Ardiyansyah Syahrom, MN Harun ...  
Proceedings of the Institution of Mechanical Engineers, Part L: Journal of ...

Uniaxial and Multiaxial Fatigue Life Prediction of the Trabecular Bone Based on Physiological Loading: A Comparative Study

2015

SJ Fatihhi, MN Harun, MRA Kadir, J Abdullah, T Kamarul, A Öchsner  
Annals of biomedical engineering 43 (10), 2487-2502

A Narrative Review of Morphology of Cancellous Bone at Different Human Anatomy- Methods and Parameters

2014

AAR Rabiatul, SJ Fatihhi, MN Harun, MRA Kadir, A Syahrom  
Applied Mechanics & Materials 695, 567-571

<p><u>Finite element simulation: the effects of loading modes at different anatomical sites of trabecular bone on morphological indices</u></p> <p>SJ Fatihhi, S Ardiyansyah, MN Harun, A Rabiatal, A Jaafar</p> <p>Advanced Materials Research 845, 266-270</p>	2014
<p><u>Study the Effect of Fluid Medium toward Synthetic Cancellous Bone Structure</u></p> <p>A Rabiatal, SJ Fatihhi, S Ardiyansyah, MN Harun, A Jaafar</p> <p>Advanced Materials Research 845, 335-339</p>	2014
<p><u>The effect of combined compression-torsion strain rates on trabecular bone ultimate properties</u></p> <p>Fatihhi S.J., Ardiyansyah Syahrom, Harun M.N., MRA Kadir</p> <p>Proceedings of 4th International Graduate Conference on Engineering</p>	2013
<p><u>Mechanical Properties of Trabecular Bone through Compression and Combined Compression-Torsion Test: A Comparative Study</u></p> <p>SJ Fatihhi, S Ardiyansyah, MN Harun, MRA Kadir</p> <p>Applied Mechanics and Materials 393, 415-421</p>	2013
<p><u>Numerical Analysis of Bovine Trabecular Bone by using Physiological Loads with Specific to Normal Walking and Down Stairs Loads</u></p> <p>Arsat Z.A, Fatihhi S.J, Rabiatal A.A.R., Ardiyansyah Syahrom, Harun M.N.</p> <p>Jurnal Mekanikal, 28-38</p>	2012

#### AWARDS AND RECOGNITIONS:

Dean's Award (2011)

Employee of the Month (2008-2009)

#### PROFESSIONAL SERVICES AND PROFESSIONAL MEMBERSHIP:

Grad. BEM (GE108212A), Board of Engineers Malaysia

#### CONSULTANCE AND COMERCIALIZATION:

#### COURSES, WORKSHOPS AND TRAININGS ATTENDED:

Theoretical & Practical Operation Universal Length Measuring Machine, 2016;  
Workshop on Advanced Sample Preparation and Analysis, 2015; Mathematica

Wolfram, 2015; Biomechanics Seminar & Workshop, 2015; Understanding Lubricating Oil Analysis, 2011; ISO 9001:2008 Internal Audit Course, 2011; Multimedia Development using Adobe Flash & Photoshop, 2010; Training of FEA Software in Civil & Mechanical Engineering (LUSAS), 2010; AutoCAD Creating 3D Models, 2007.