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Academic Qualification

1. PhD. (Engineering), Kyushu University, Japan, 2017
2. Master (Applied Medical Engineering Science), Yamaguchi University, Japan, 2013
3. B.Eng. Mechanical Engineering, Yamaguchi University, Japan, 2011
4. Dip. Mechanical Engineering, Universiti Industri Selangor, 2009

Working Experiences / Appointment

1. May 2017 ~ to date Senior Lecturer, Faculty of Mechanical Engineering, Universiti Malaysia Pahang
2. May 2017 . Tutor, Faculty of Mechanical Engineering, Universiti Malaysia Pahang
3. April 2015 ~ March 2017 Part-time lecturer, International Animation College, Japan.

Research Interest

Biomechanics, Biomedical engineering, Biomaterial, CT-based FEA, Fabrication of scaffold and implants.

Professional Qualification / Membership / Affiliation / Experience

1. Graduate Engineer, Board of Engineer, Malaysia (BEM) (147746A)
2. Student member, The Japan Society of Mechanical Engineering (JSME)

Teaching Experience

1. Sem2 2016/2017
BMM2683 Applied Thermodynamics, 3 credits (50 Students)
BMM2533 Fluids Mechanics 1, 3 credits (60 Students)
BMM2523 Thermodynamics 2, 3 credits (1 Students)
2. Sem1 2017/2018
DMM1312 Computer Programming, 2 credits, (49 Students)
DMM2513 Solid Mechanic, 3 credits, (66 Students)
BHA4904 Bachelor Thesis, 4 credits, (23 Students)
BHA4902 Preparation for Bachelor Thesis, 2 credits, (23 Students)
BHA4931 Final Examination, 1 credits, (23 Students)
BMM4912 Final Year Project 1, 2 credits, (4 Students)

List of Publications

1. M. H. Jalil, M. H. Mazlan, and M. Todo. Biomechanical Comparison of Polymeric Spinal Cages using CT Based Finite Element Method. International Journal of Bioscience, Biochemistry and Bioinformatics 2017 Vol.7 Num.2.
2. M. H. Jalil, and M. Todo. Development and Characterization of Gear Shape Porous Scaffolds using 3D Printing Technology. International Journal of Bioscience, Biochemistry and Bioinformatics 2017 Vol.7 Num.2.

Conference Proceedings

1. M.H. Jalil and M. Todo. Development of 3D Porous Structures Using 3D Printing Technology. International Conference on Advanced Technology in Experimental Mechanics (ATEM' 2015), Toyohashi, Japan, 4-8 October 2015 (oral)
2. M.H. Jalil, and M. Todo. Development of Porous Structures Using 3D Printing Technology. Proceedings of the 27th Japanese Society Mechanical Engineering (JSME) Bioengineering Conference, Niigata, Japan, 9-10 January 2015.
3. Yoshiki Kato, Junji Ohgi, Syunichi Kawano, and Hilmi Muhammad. FEM Analysis for Creep Defromation Behavior in Forging-Notched PLA. Proceeding of the Japanese Society Mechanical Engineering (JSME) Material and Mechanic (M&M) Conference, Gifu, Japan, 11-14 October 2013.

List of Research / Project/Grants

1. Development of brain tissue swelling predictive tools for ischaemic stroke patient post-treatment. (RDU1703310). Member

Awards / Research / Achievements

1. SLAB/SLAI Scholarship, Ministry of Higher Education 2011-2017.
2. Yayasan Pelajaran MARA(YPM) Scholarship 2006-2011.

List of Course / Trainings/ Seminars Attended

Internal Course/ Trainings/ Seminars

1. Kursus Asas Pengajaran Dan Pembelajaran (PnP) Modul 1 (Academic Leadership) Unit 1-3, 26 December 2017.
2. Kursus Effective Research Proposal Writing 2017, 28 November 2017.
3. Dialog Transformasi Nasional 50 (TN50):Kementerian Pendidikan Tinggi Bersama Kementerian Belia Dan Sukan, 8 November 2017.
4. Kursus Asas Pengajaran Dan Pembelajaran (PnP) Modul 3 (Understanding Teaching And Learning) Unit 1-3, 12 September 2017.
5. Kursus Asas Pengajaran Dan Pembelajaran (PnP) Modul 2 (Curriculum Design) Unit 1-3, 22 August 2017.
6. Program Orientasi Staf Baharu Universiti Malaysia Pahang Bil 1/2017, 2-3 August 2017.
7. Kursus : Teaching And Learning Induction Course, 10 July 2017.
8. Kursus Asas Pengajaran Dan Pembelajaran (PnP) Modul 5 (Learning Assessment And Evaluation) Unit 1-3, 14 June 2017.
9. Kursus Asas Pengajaran Dan Pembelajaran (PnP) Modul 6 (Professional Practices) Unit 1-3, 8 June 2017.
10. Kursus Asas Pengajaran Dan Pembelajaran (PnP) Modul 4 (Effective Teaching And Learning) Unit 1-3, 6 June 2017.

Academic Leadership

1. Coordinator for Final Year Projects (FYP) BHA, 2 January 2019 ~ 31 December 2018.
2. Member of Working Committee for Program Latihan Kemahiran Industri (PLKI) East Coast Rail Link (ECRL), 20 July 2017-19 July 2018.
3. Examination coordinator for Faculty of Mechanical Engineering, 6 June 2017 ~ 31 December 2017.
4. Coordinator for MOSTI Research Fund Briefing Program, 26 July 2017.

Postgraduate Supervision

Degree/ Final Year Supervision

1. MA14145, MUHAMMAD AKMAL HELMY BIN BURHANUDDIN, Notch size effect on the creep strength of PLA.

2. MA14124, MUHAMMAD IFWAT BIN HAIDZIR, Creep strain assessment for notched Polylactic Acid (PLA) using FEM analysis.
3. MUHAMAD IRFAN BIN YAACUB, Effect of fabrication methods on the mechanical properties of notched Poly Lactic Acid (PLA)

Diploma/ Final Year Supervision