

NORIZAH BINTI HJ REDZUAN

Department of Material, Manufacturing and Industrial Engineering
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Current Responsibilities:

Head of Manufacturing Panel

Member of Advanced Manufacturing Research Group (AMRG) UTM

Member of Materials and Manufacturing Research Alliance (MMRA)

Researcher of Korea Institute of Materials Science (KIMS)

Coordinator for UTM & HRD Korea MoU, 2012-2014

Coordinator for FKM & Korea Polytechnic MoU, 2012-2014

HTGYE Committee

UTM/FKM Promotion Team Committee

Kelab Kebajikan FKM Committee

Education	PhD, Mechanical Engineering, University of Glasgow (2010) Master Degree, Mechanical Engineering Universiti Teknologi Malaysia (2002) B. Eng (Hons), Mechanical Engineering, University of Glasgow (1997) Certificate of Technical Teaching, CIAST (1986) Diploma in Mechanical Engineering (1985)
Area of interest	Microdrilling, MMC drilling, composite drilling, laser processing, plasma system development, machining, welding and network management modelling.
Publication	<ol style="list-style-type: none">1. B. Yahaya; S. Izman; M. Konneh; Norizah Redzuan, "Microwave Hybrid Heating of Materials Using Susceptors A Brief Review" Advanced Materials Research. 2014; 845:426-4302. A. E. I. Elshwain; Norizah Redzuan, "Effect of Cooling/ Lubrication Using Cooled Air, MQL plus cooled air, N2 and Co2 Gases Onto Life and Surface Finish in Machining- A Review" Advanced Material Research. 2014; 889-8933. Nor Miza Hazwani Omar; Masine MD Tap; Norizah Redzuan, "Conceptual Optimization Model of Inventory/ Distribution Network With Multi role Nodes" Advanced Materials Research. 2014; 692-6954. A. E. I. Elshwain; Norizah Redzuan, Noordin Mohd Yusof; Machinability of of Nickle and Titanium Alloys under of Gas-Based Coolant-Lubricants (CLS)- A Review; International Journal of Research in Engineering and Technology: Vol 2 Issue 11, November 2013; 690-7025. N. Redzuan; B. S. Kim; D. Kurniawan, "Silane Treatments on Cellulose Fabric/Polylactic Acid Composites" 8th ACCM 2012- Composites: Enabling Tomorrow's Industry Today, 2012; 1:39-436. Abdolkarim Niazi; Norizah Redzuan; Raja Ishak Raja Hamzah; Sara Esfandiari, "Improvement on Supporting Machine Learning Algorithm for Solving Problem in Immediate Decision Making" Advanced Materials Research. 2012; 566: 572-5797. V.C Venkatesh, Norizah. R, Ourdjini, A, "Microdrilling of Composites"; Proceedings of 2nd International Conferences of material in Advanced Technologies (ICAMT), Singapore, July 2001".

	<p>8. V.C Venkatesh, Norizah. R, M. Konneh, “Micromachining of Electronic Materials”; Proceedings of 19th ALL India Manufacturing Technology, Design and Research Conference (AIMTDR), Madras, India, December 2000.</p> <p>PhD Thesis; Cold Plasma Air Decontamination (2010)</p> <p>Industrial Report for Nviro Cleantech PLC, UK; Microorganism</p> <p>Masters Thesis; Microdrilling of Composit Materials (2003)</p>
Conference	<ol style="list-style-type: none"> 1. Ayu Artini, Masine Md Tap, Norizah Redzuan, Azanizawati Maaram, “Conceptial product recovery model of perishable goods under uncertainty” ,1st International Materials, Industrial and manufacturing Engineering Conference (MIMEC 2013), December 4 – 6, 2013, Johor Bharu, Malaysia. 2. Abdolkarim Niazi, Norizah Redzuan, Sara Esfandiari,Raja Ishak Raja Hamzah, “Accelerating Reinforcement Learning Algorithms to Solve Problems in Real-Time Decision Making for Tool Condition Monitoring” 2nd International Conference on Recent Trend in Material and Mechanical Engineering (ICRTMME 2013), Sept 21 – 23, 2013, Singapore. 3. Seyed Saeid Rahimian Koloor, <u>Norizah Redzuan</u>, Mohd Nasir Tamin, “Shear-dominated Interlaminar Fracture Process in CFRP Composite Laminates”, The 9th International Conference on Fracture & Strength of Solids (FEOFS) 2013, Jeju, South Korea, 9th- 13th June 2013 4. N. Redzuan, B. S. Kim, D. Kurniawan, “Silane Treatments on Cellulose Fabric/Polylactic Acid Composites” 8th ACCM 2012, Kuala Lumpur, Malaysia, 6 – 8 November 2012. 5. N. Redzuan, B. Y. Kim, D. Kurniawan, “Mechanical Properties of Cellulose Fabric/Polylactic Acid Composites: Effect of Silane Coupling Agent and Atmospheric Plasma Polymerization”, IAENG, WCE 2012, London UK 4-6 July 2012 6. Abdolkarim Niazi, N.Redzuan, R. I. R. Hamzah and S. Esfandiari, ”Improvement on Supporting Machine Learning Algorithm for Solving Problem in Immediate Decision Making”, 2012 International Conference on Machine Design and Manufacturing Engineering(ICMDME 2012), Jeju South Korea 11-12 May, 2012 7. V.C Venkatesh, Norizah. R, Ourdjini, A, “Microdrilling of Composites”; Proceedings of 2nd International Conferences of material in Advanced Technologies (ICAMT), Singapore, July 2001”. 8. V.C Venkatesh, Norizah. R, M. Konneh, “Micromachining of Electronic Materials”; Proceedings of 19th ALL India Manufacturing Technology, Design and Research Conference (AIMTDR), Madras, India, December 2000.
Selected Research Projects/Consultancies:	<p>Modelling of Cold Plasma with Uniform Field Electrode, Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education, Malaysia, 2010- present (ongoing).</p> <p>Cold Plasma System PhD Project, University of Glasgow, UK Grant by NViro CleanTech Plc (2005-2009).</p> <p>Micdrodrilling of Composite Materials, M.Sc (by research) project, Research Management Center (RMC) Grant, UTM Malaysia and Kennametal Plc, Germany (2000-2002).</p>
Work Experience 1986-1997	<p>Mechanical Machining Instructor, Industrial Training Institute, Melaka Malaysia</p> <p>Manage machining workshop for trainee.</p>

1997 (June-August)	<ul style="list-style-type: none"> • Handle the training for school leaves or industrial worker in the traditional material removal processes (machining). • Manage projects and maintenance of machines and tools. • Prepare training teachings material and prepare syllabus. • Monitor workshop safety regulations. <ul style="list-style-type: none"> • Student Internship Shell Technology Entrepreneurship Program, Glasgow UK
Jan.1998- Nov. 2003	<p>Assistant Registrar (special case), Faculty of Mechanical Engineering UTM</p> <p>Subject : Engineering Drawing, Manufacturing Process. MSc research student (1999 – 2002)</p>
Dec 2003- Jan. 2011	<p>Lecturer, Faculty of Mechanical Engineering</p> <p>Subjects: Manufacturing Process, Modern Machining, Engineering Drawing, Operation Management for Industrial Design.</p> <p>Supervise Undergraduate Final Year Project (17 students) in area of microdrilling, machining, design, quality and industrial management.</p>
Feb. 2011 - present	<p>Senior Lecturer, Faculty of Mechanical Engineering</p> <p>Subjects (Undergraduate): Manufacturing Process, Modern Machining, Engineering Drawing, Operation Management for Industrial Design, Production Planning and Control, Work Design, Advanced Manufacturing Systems</p> <p>Subject Teaching Post graduate: Research Methodology, Modern Machining</p> <p>Supervise: PhD – Amad Eddien Elshwion Navid Moeslimi</p> <p>Co-supervise: PhD – Abdolkarim Niazi</p> <p>Supervise: 3 M. Sc – Mohd Hairil bin Jumari, Ayu Artini binti Alif Lee, Miza Hazwani binti Omar.</p> <p>Graduated: Student for M.Sc - Siamak Ghasemzadeh Esfahani (2012) - Mohd Fauzi bin Rasep - Navid Moeslimi</p> <p>Current M.Sc Student – Widodo B. Eng - 4 students</p> <p>10 students for B. Eng (Mechanical-Manufacturing) (2012) 5 students for B. Eng (Mechanical – Manufacturing) (2013)</p>
Awards	<p>JPA Scholarship, Diploma in Mechanical Engineering, UTM KL (1982)</p> <p>APSDEP-KOICA Instructor Upgrading Scholarship, SIVAT Seoul, Korea,1992</p> <p>MARA Scholarship, Degree in Mechanical Engineering, University of Glasgow.</p>

	JPA/SLAB Scholarship, Masters Degree, University Teknologi Malaysia (1999)
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	JPA/SLAB Scholarship, PhD Degree, University of Glasgow (2005)
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Referee:

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