

KURIKULUM VITAE

1.0 MAKLUMAT PERIBADI

1. Nama : Hamidon bin Musa
2. No. Kad Pengenalan : 560531-01-5865
3. Jawatan : Profesor Madya
4. Majikan : Universiti Teknologi Malaysia (Fakulti Kejuruteraan Mekanikal; Jabatan Kejuruteraan Pembuatan dan Industri)
5. Bidang Kepakaran : Pembuatan (Manufacturing)
6. Bidang Pengkhususan : Teknologi Pembuatan, termasuk Pemesinan Moden dan Pemetongan Logam
7. Alamat Pejabat : Fakulti Kejuruteraan Mekanikal
Universiti Teknologi Malaysia
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8. Kewarganegaraan : Malaysia

2.0 KELAYAKAN AKADEMIK

1. 1974 M.C.E./G.C.E. Ordinary Level : Sekolah Tuanku Abdul Rahman, Ipoh, Malaysia
2. 1977 G.C.E. Advanced Level : Chester College of Further Education, Chester, U.K.
3. 1980 BSc (Mechanical Engineering) : University of Birmingham, Birmingham, U.K.
4. 1984 MSc (Manufacturing Technology) : Cranfield Institute of Technology, U.K.

3.0 KEAHLIAN PROFESIONAL

1. Berdaftar sebagai Jurutera dengan Lembaga Jurutera Malaysia (Per. 6222A) pada 21 Mac 1981
2. Senior Member, Society of Manufacturing Engineers, USA (Member No. 10771110)

4.0 PENGALAMAN

1. Profesor Madya, Universiti Teknologi Malaysia : sejak Jun 2000
2. Pensyarah, Universiti Teknologi Malaysia : Oktober 1984 - Mei 2000
3. Penolong Pensyarah, Universiti Teknologi Malaysia : Jun 1981 - September 1984
4. Jurutera Mekanikal, Malaysian International Consultants, P.J. : Mac 1981 - Jun 1981
5. Jurutera Siswazah, Malaysian International Consultants, P.J. : September 1980 - Februari 1981

6. Pelatih Latihan Amali, Sutton Coldfield Technical College, UK : 1979 (5 minggu)
7. Pelatih Latihan Amali, Matthew Boulton College, UK : 1978 (6 minggu)

5.0 JAWATAN PENTADBIRAN / JAWATANKUASA

A. JAWATAN PENTADBIRAN

1. Penyelaras, Program Sarjana Kejuruteraan (Mekanikal – Teknologi Pembuatan Termaju) : Mac 2005 - sekarang
2. Pengerusi, Jawatankuasa Projek Sarjana Muda FKM : Januari 2001 - Januari 2003
3. Ketua Jabatan, Jabatan Kejuruteraan Pengeluaran dan Industri : Oktober 1996 - Oktober 1998
4. Ketua Panel Pembuatan : Disember 1995 - Oktober 1996
5. Ketua Makmal Syop Mesin : Mei 1986 - Disember 1988
6. Penasihat Akademik Kumpulan Pelajar Berikut:
 - a. Sarjana (Advanced Manufacturing Tech.) : Mac 2005 - sekarang
 - b. Sarjana Muda (1SMP PA306) : Ogos 1999 – 2005
 - c. Diploma (PA 223) : Oktober 1996 - Oktober 1997
 - d. Sarjana Muda (SKJ PA 137) : Januari 1995 - 1997
 - e. Diploma (PA 90 – 95) : Julai 1989 - Disember 1990
 - f. Sarjana Muda (1 SKJ 83/84) : Mei 1988 - Julai 1989

B. KEAHLIAN JAWATANKUASA PERINGKAT ANTARABANGSA / KEBANGSAAN

1. Ahli, International Advisory Board, dan Ahli, Executive Committee, Pacific Asia Conference on Mechanical Engineering Anjuran Technological University of the Philippines : Mei 1997 - September 1998
2. Wakil Tetap UTM ke Kumpulan Kerja Kelompok Awam - Swasta IMP2 (Sektor Motosikal) : Mei 1997 - 2003
3. Pengerusi, Jawatankuasa Standard Kebangsaan bagi Automobile Brake Pads : Oktober 1998 - Disember 2000
4. Panel Penasihat, Institut Latihan Perindustrian, Pasir Gudang : 1999 – 2003
5. Panel Penilai, Lembaga Akreditasi Negara (kursus-kursus pengajian kejuruteraan mekanikal) : 1999 - kini
6. Ahli, Jawatankuasa Standard Kebangsaan: Technical: Committee for Welding and Allied Processes : November 2002 - kini

C. KEAHLIAN JAWATANKUASA PERINGKAT UNIVERSITI

1. Ahli Panel Penilai Pemantauan Projek Penyelidikan IRPA RMK 8 : Mei 2004
2. Ahli Jawatankuasa Indeks Kejuruteraan Mekanikal : 2002

3. Ahli Kumpulan Kajian Penubuhan Fakulti / Kursus : Februari 1998 - 2001
Kejuruteraan Pembuatan
 4. Setiausaha, Kumpulan Fokus Pembuatan dan Jentera: Disember 1977 - Oktober 1998
 5. Ahli Panel Penilai Cadangan Penyelidikan IRPA : Oktober 1996
bagi Kumpulan Fokus Pembuatan dan Jentera
 6. Ahli Lembaga Pelupusan dan Hapuskira UTM : November 89 - Disember 1990
- D. *KEAHLIAN JAWATANKUASA / TUGAS PERINGKAT FAKULTI (Sebahagian)***
1. Sidang Penyunting, Jurnal Mekanikal (jurnal: Jun 2000 – kini
peringkat kebangsaan)
 2. Ahli Jawatankuasa Jurnal Mekanikal FKM : Jun 2000 - kini
 3. Ahli Lembaga Akademik FKM : Disember 1995 - Oktober 1998
 4. Pengerusi, Jawatankuasa Latihan Industri : Oktober 1996 - Oktober 1998
 5. Ahli Lembaga Pentadbiran FKM : Oktober 1996 - Oktober 1998
 6. Ahli J/kuasa Penyelarasan Pengajian Siswazah : Oktober 1996 - Oktober 1998
 7. Ahli Jawatankuasa Penyelarasan Diploma : Februari 1995
 8. Ahli Jawatankuasa Penubuhan Makmal : Disember 1994
Pembentukan Logam
 9. Ahli Jawatankuasa Perpindahan Fasa 2 FKJ : Jun 1988 - Disember 1988
 10. Ahli Jawatankuasa Penubuhan Kursus Diploma : Januari 1988 - Mac 1989
Teknologi Pembuatan
 11. Penyelaras Latihan Amali Dalam Kampus : Mei 1986 - Disember 1988

6.0 PENGAJARAN

1. Peringkat Sarjana : Proses Pemesinan Moden, Metal Cutting Processes,
Manufacturing Processes.
Advanced Machining Processes (KUITTHO).
2. Peringkat Sarjana Muda : Pengeluaran Automotif, Proses Pemesinan Moden,
Proses Pembuatan, Teknologi Pengeluaran, Teknologi
Pengeluaran II, Teknologi Bahan, Teknik Ujikaji.
Sistem Pengeluaran dan Pengautomatan (UPM)
- 3 Peringkat Diploma : Teknologi Pengeluaran, Teknologi Bengkel.
4. Peringkat Sijil : Teknologi Pembuatan (Kursus Teknik Peluru,
Kementerian Pertahanan)
5. Pengendalian Makmal: Kaedah Taguchi, Machine Accuracy, Makmal
Pengeluaran, Makmal CNC, Makmal Metrologi,
Makmal Sains Bahan, Makmal Syop Mesin,
Modul Latihan Praktik Pelarikan.

7.0 PENYELIAAN

1. Projek Sarjana:
 - a. Potential Improvement With Strategic Management in Textile Management –
calon: Onni Suhaiza Selaman

- b. Kajian Keutuhan Permukaan Dalam Proses Pengisaran Halus Ke Atas Keluli Alat – calon: Adam Malik
 - c. Application of Group Technology Based Integrated Cellular Manufacturing System – calon: Suberamaniam Krishnamoorthy
 - d. Control of Non Direct Materials in an Electronic Manufacturing Plant – calon: Hau Lian Chuan
 - e. Ultrasonic Machining of Alumina Using Classical Design of Experiment Approach – calon: Fairuz Muhamad
 - f. Electrical Discharge Machining of Aluminium Alloy Using Classical Design of Experiment Approach – calon: Nguyen Van Tri
 - g. Study of Machining Parameters Optimisation in EDM of Tungsten Carbide Using Taguchi Method – calon: Mohd Amri Lajis
 - h. Etching Performance of Silicon Wafers With Redesigned Etching Drum – calon: Rozzeta Dollah
 - i. Wire Electrical Discharge Machining of Titanium Tertiary Intermetallic – calon: Abdul Sukur Kamsir
 - j. Ultrasonic Machining of Titanium Tertiary Intermetallic – calon: Mustafa Bakri
 - k. Wire Electrical Discharge Machining Performance Study of Tungsten Carbide – calon: Mas Ayu Hassan
2. Projek Sarjana Muda : Menyelia Projek Sarjana Muda 70 orang pelajar
 3. Penyeliaan Latihan Industri : Menyelia Latihan Industri lebih 40 pelajar Sarjana Muda

8.0 PENYELIDIKAN

1. Ahli Projek IRPA (Vot 72255) (Ketua Projek: PM Dr. Mohd Nazri Jaafar), (Pemangku ketua projek 24 Disember 2003 – 8 Februari 2004)
2. Ahli Projek IRPA (Vot 74088) (Ketua Projek: PM Dr. Mohd Nazri Jaafar), (Pemangku ketua projek 24 Disember 2003 – 8 Februari 2004)
3. Ahli Projek IRPA: Diamond Cutting Tools for Malaysia's Precision Industry, 2000 - 2002
4. Ketua Projek UPP, UTM: Group Technology Based Integrated Cellular Manufacturing, 1997 - 1999
5. Ahli Projek IRPA: Development of MMC: Method of Fabrication, 1996 - 1998
6. Ketua Projek UPP, UTM: Design and Manufacture of Aero Modelling Kit, 1996 – 1997 (1 tahun)
7. Ketua Projek UPP, UTM: Flow Curve Determination and Workability Studies - Part II, 1995 - 1996
8. Ketua Projek IRPA: Flow Curve Determination and Workability Studies, 1992-1994
9. Ahli Projek UPP, UTM: Design and Development of CNC Bench Type Milling Machine, 1988-1990
10. Ahli Kumpulan Kajian: The Formulation of a Comprehensive Plan of Action for Industrial Technology Development: Emergent or New Technologies Affecting Manufacturing Systems, 1988-1989 (1 tahun),
Tajaan: Kementerian Sains, Teknologi dan Alam Sekitar

11. Ahli Kumpulan Kajian: Feasibility Studies on the Increased Use of Automation in the Manufacture of Civil Transport Fuselages, 1983-1984 (9 bulan), Tajaan: British Aerospace, Chadderton, UK
12. Penyelidik: A Study of Smut Formation in the Photochemical Machining of Aluminium and Spring Steel, 1983-1984 (1 tahun), Tajaan: Photofabrication (Services) Ltd., UK
13. Penyelidik: Design of Variable Curvature Mirror, 1979-1980 (9 bulan), Tajaan: Birmingham Area Health Authority, UK

9.0 PERUNDINGAN

1. Pensyarah Kursus Pendek “Advanced Machining Processes” untuk staf MARA, 2006
2. “PET Stretch Blow Moulding Machine Design,” 1999 (4 bulan), Tajaan: Syarikat Ching Yee Mould Industries, Bangi
3. “Assembly Facilities for Vehicle Water Pumps,” Februari 1996 - Mac 1996, Tajaan: Syarikat Rahman Brothers Industries, Kuala Lumpur
4. “Feasibility Study on the Manufacture of Electric Motors,” Ogos 1988 - Mac 1989, Tajaan: Bank Pembangunan Malaysia
5. “Mini-Hydro Project in North Malaysia,” Mac 1981 - Jun 1981, Tajaan: EPU/National Electricity Board

10.0 PENULISAN/PENERBITAN

A. *BUKU, KERTAS KERJA JURNAL, PERSIDANGAN, DLL*

1. SI Rendition, ‘Manufacturing Engineering And Technology’ Fifth Edition, 2006, Prentice Hall/Pearson Education South Asia.
2. SI Rendition, ‘Solutions Manual for Manufacturing Engineering And Technology’ Fifth Edition, 2006, Prentice Hall/Pearson Education South Asia.
3. Malaysian Standard: General Rules For Fusion Welding, 2006, Department of Standards, Malaysia.
4. Malaysian Standard: Welding Procedure Specification For Arc Welding, 2006, Department of Standards, Malaysia.
5. Malaysian Standard: Welding Procedure Tests For Arc Welding, 2006, Department of Standards, Malaysia.
6. Malaysian Standard: Welding Procedure Tests For Arc Welding of Aluminium And Its Alloy, 2006, Department of Standards, Malaysia.
7. Malaysian Standard: Approval By Using Approved Welding Consumables For Arc Welding, 2006, Department of Standards, Malaysia.
8. Malaysian Standard: Approval Related To Previous Experience, 2006, Department of Standards, Malaysia.
9. Malaysian Standard: Approval By A Standard Welding Procedure For Arc Welding, 2006, Department of Standards, Malaysia.
10. Malaysian Standard: Approval By A Pre-Production Welding Test, 2006, Department of Standards, Malaysia.
11. Malaysian Standard: Welding Procedure Specification For Electron Beam Welding, 2006, Department of Standards, Malaysia.

12. Malaysian Standard: Welding Procedure Specification For Laser Beam Welding, 2006, Department of Standards, Malaysia.
13. Buku Panduan Fakulti Kejuruteraan Mekanikal, 'Faculty Of Mechanical Engineering Student Guide,' terjemahan buku untuk FKM, UTM, November 2004
14. Penyunting buku 'Reka Bentuk Sistem Kuasa Bendalir,' untuk Penerbit UTM, 2004
15. Membangun dan Menyelaras Indeks (11 Bidang) Ensiklopedia Sains & Teknologi untuk Penerbit UTM dan DBP, Ogos 2004
16. 'Pembuatan Tersepadu Komputer – dari konsep menjadi kenyataan,' Penerbit UTM, terjemahan buku 'Computer Integrated Manufacturing – From Concept to Realisation,' Roger Hannam, 2003
17. 'Management and Control of Non-Direct Materials in an Electronic Company,' Jurnal Mekanikal, UTM, No. 13, Jun 2002
18. 'Machining Characteristics of Tungsten Carbide Using EDM,' Proceedings of World Engineering Congress 2002, Sarawak, Julai 2002
19. 'Microdrilling of Composites,' Proceedings of International Conference on Materials for Advanced Technologies, Singapura, Julai 2001
20. 'The Electrical Discharge Machining of Tungsten Carbide,' Proceedings of Malaysian Science and Technologies Congress, Melaka, Oktober 2001
21. 'Application of Group Technology Based Integrated Cellular Manufacturing System,' International Journal for Manufacturing Science and Technology, Vol. 2, No. 2, 2000
22. 'Application of Group Technology Based Integrated Cellular Manufacturing System,' Proceedings of Second International Conference on Advanced Manufacturing Technology, Johor Bahru, Ogos 2000
23. 'Comparison in Surface Integrity of Tool Steel When Finished With Single-tooth and Multi-tooth Milling,' Proceedings of Fifth International Conference on Manufacturing Technology, Beijing, November 1999
24. 'Flatness and Roughness Performance Monitoring in Finish Milling of Tool Steels Using the Taguchi Approach,' Proceedings of World Engineering Congress, Kuala Lumpur, Julai 1999
25. 'Process Performance Monitoring in Pewter Manufacturing,' Jurnal Mekanikal, Jil. 6, Bil. 2, 1998
26. 'Grinding of Aluminium Based Metal Matrix Composites,' Hamidon Musa, A. Ourdjini and M.K. Teh, Proceedings of International Conference on Advances in Materials and Processing Technologies, Kuala Lumpur, Ogos 1998
27. 'Smut Formation in Chemical Etching Processes Using Aqueous Ferric Chloride,' Hamidon Musa, Proceedings of Fourth International Conference on Manufacturing Technology, Hong Kong, Disember 1997
28. 'Flexible Lightweight Gripper for Educational Robot,' Hamidon Musa and L.K. Pheng, Proceedings of Third International Conference on Manufacturing Technology, Hong Kong, Disember 1995
29. 'Photochemical Machining of Aluminium Alloy L72,' Hamidon Musa, Proceedings of Malaysian Science and Technology Congress '95, Kuala Lumpur, Ogos 1995
30. 'Photochemical Machining of Black Label Spring Steel,' Hamidon Musa, Proceedings of Pacific Asia Conference in Mechanical Engineering, Manila, April 1995
31. 'Flexible Gripper for Educational Robot,' Hamidon Musa and L.K. Pheng, Proceedings of Pacific Asia Conference in Mech. Engineering, Manila, April 1995

32. 'Development in Upsetting Die Constructions for Flow Curve Determination,' Hamidon Musa and Jamaliah Idris, Proceedings of International Conference on Advanced Manufacturing Technology, Johor Bahru, Ogos 1994
 33. 'A New Compression Testing Facility,' Hamidon Musa, Jamaliah Idris and S. Rajesham, Proceedings of Malaysian Science and Technology Congress '94, Kuala Lumpur, Ogos 1994
 34. 'Design and Development of CNC Bench Type Milling Machine,' S. Rajesham and Hamidon Musa, Seminar UPP/IRPA Fakulti Kejuruteraan Jentera, UTM, Jun, 1993
 35. 'An Indegenous Development of Computer Numerical Control Bench Type Milling Machine,' Syed Azman S.S.N., Hamidon Musa and S. Rajesham, Proceedings of Malaysian Science and Technology Congress '92, Kuala Lumpur, Ogos 1992
 36. 'The Formulation of a Comprehensive Plan of Action for Industrial Technology Development; Emergent or New Technology Affecting the Manufacturing Sector - Executive Summary,' S. Rajesham, et. al., Seminar Pembentangan kepada Kumpulan Pakar, Kuala Lumpur, April 1989
 37. 'The Formulation of a Comprehensive Plan of Action for Industrial Technology Development; Emergent or New Technology Affecting the Manufacturing Sector,' S. Rajesham, et. al., Technical Report, ISIS, 1989, 218 pp.
 38. 'Teknologi Kerja Tekan Dalam Industri Logam,' Hamidon Musa, Bengkel Kerja Industri Berasaskan Logam Anjuran Kementerian Pembangunan Negara dan Luar Bandar, Kuala Lumpur, November 1988
 39. 'The Increased Use of Automation in the Manufacture of Civil Transport Aircraft Fuselages - Report to Industry,' B. Fisher, et. al, Seminar on Presentation to Industry, Cranfield, Jun 1984
 40. 'The Increased Use of Automation in the Manufacture of Civil Transport Aircraft Fuselages - Design For Automated Routing,' B. Fisher, B.M. Hamidon, M.G.M. Hogg, A.A. Masey and A.S. Nadir, Technical Report, CIT, Oktober, 1984, 114 pp
 41. 'A Study of Smut Formation in the Photochemical Machining of Spring Steel and Aluminium,' Hamidon Musa, MSc Thesis, CIT, Oktober, 1984
 42. 'Design of Variable Curvature Mirror,' Hamidon Musa, BSc Thesis, University of Birmingham, 1980
- B. *LAIN-LAIN (LAPORAN ILMIAH, KERTAS KERJA)***
43. Laporan Penilaian Panel Penilai, Penilaian Lawatan (Akhir) Perakuan Akreditasi, Kursus Diploma in Manufacturing Engineering (Tool & Die Making), untuk Lembaga Akreditasi Malaysia, September 2004
 44. Laporan Penilaian Panel Penilai, Penilaian Lawatan (Akhir), Kelulusan Pengendalian Kursus Pengajian, Bacelor Teknologi Kejuruteraan (Tool & Die), untuk Lembaga Akreditasi Malaysia, September 2003
 45. Laporan Penilaian Panel Penilai – Kelulusan Pengendalian Kursus Pengajian,' Bacelor Teknologi Kejuruteraan (Tool & Die), untuk Lembaga Akreditasi Malaysia, Ogos 2003
 46. Laporan Penilaian Panel Penilai – Kelulusan Pengendalian Kursus Pengajian, Kursus Diploma Kejuruteraan Mekanikal, untuk Lembaga Akreditasi Malaysia, November 2001
 47. 'Pelaksanaan Projek PSM', pembentangan kertas kerja dalam Bengkel Pelaksanaan PSM, FKM, Mac 2001

48. 'Cadangan Kursus Baru Kejuruteraan Pembuatan,' kertas kerja untuk pertimbangan Senat UTM, 2000
49. Laporan Penilaian Panel Penilai – Penilaian Dokumentasi dan Lawatan Perakuan Akreditasi, Kursus Diploma Teknologi Acuan, untuk Lembaga Akreditasi Malaysia, Julai 1999
50. 'Setting Up Assembly Facilities For Water Pump Assembly - A Technical Proposal,' Awaluddin Mohd Shaharoun, et. al., Mac 1996
51. 'Pro - Forma For Project Type Cooperation: The Establishment of a Metal Forming Research and Applications Laboratory at UTM Sekudai Campus, Johor Bahru,' S. Rajesham et. al., 1989
52. 'Cadangan Penubuhan Pusat Pembuatan Kampus Skudai,' S. Rajesham, Hamidon Musa dan Zainal Abidin Ahmad, Jun 1989
53. 'Cadangan Kursus Diploma Kejuruteraan Jentera (Teknologi Pembuatan),' S. Rajesham, et. al., Oktober 1988
54. 'Student Practical Training in Workshops at UTM Skudai Campus - A Proposal,' S. Rajesham and Hamidon Musa, April 1988

11.0 PENILAIAN, PEMERIKSAAN KERJA ILMIAH

A *PENILAIAN KURSUS*

1. Penilai Akreditasi kursus Diploma in Manufacturing Engineering (Tool & Die Making), TATI (Terengganu Advanced Institute of Technology), untuk Lembaga Akreditasi Negara, Julai 2004
2. Penilai kursus pengajian Ijazah Teknologi Kejuruteraan Tool & Die Universiti Kuala Lumpur, untuk Lembaga Akreditasi Negara (Penilaian semula), Jun 2004
3. Penilai kursus pengajian Ijazah Teknologi Kejuruteraan Tool & Die (KN 4403), Universiti Kuala Lumpur, untuk Lembaga Akreditasi Negara, 2003
4. Penilai kursus Diploma Kejuruteraan Mekanikal, Institut Teknologi Kenwa, untuk Lembaga Akreditasi Negara, 2001
5. Penilai Akreditasi kursus Diploma in Manufacturing Engineering (Tool & Die Making), TATI (Terengganu Advanced Institute of Technology), untuk Lembaga Akreditasi Negara, Julai 1999

B. *PENILAIAN KERTAS KERJA JURNAL, PERSIDANGAN ANTARABANGSA, ENSAIKLOPEDIA*

1. Penilai artikel Jurnal Teknologi, 'Sculpting Expandable Polystyrene Sheet Using Loop-Shaped Hotwire' untuk Penerbit UTM, September 2004
2. Penilai artikel Jurnal Teknologi 'Thermoforming Process Characterisation Using Statistical Design of Experiment Approach' untuk Penerbit UTM, Mei 2004
3. Penilai artikel 'Electrochemical Micro Machining' untuk International Conference on Advanced Manufacturing Technology, Mac 2004
4. Penilai artikel 'Production of Magnesium Alloy Cup with Minimum Corner Radius' untuk International Conference on Advanced Manufacturing Technology, Mac 2004
5. Penilai artikel 'Formation of Metal Matrix Layers with SiC_p On Titanium Using TIG Process' untuk International Conference on Advanced Manufacturing Technology, Mac 2004

6. Penilai artikel 'Precision Control to Ring's Dimensions during Ring Rolling Process' untuk International Conference on Advanced Manufacturing Technology, Januari 2004
7. Penilai artikel 'Theoretical and Experimental Analyses of Dielectric Fluid Flushing in Electro Discharge Machining Process' untuk International Conference on Advanced Manufacturing Technology, Januari 2004
8. Penilai artikel 'The Influences of Voltage, Current and Wire Feed Rate on Surface Roughness in the WEDM of AISI 8620 Steel' untuk International Conference on Advanced Manufacturing Technology, Januari 2004
9. Penilai artikel Jurnal Teknologi, 'State-of-the Art Survey on Modular Product Architecture' untuk Penerbit UTM, 2003
10. Penilai artikel Jurnal Teknologi 'Pendekatan Ke Arah Meningkatkan Perkongsian Komponen Berasaskan Kaedah Modular' untuk Penerbit UTM, 2003
11. Penilai Artikel untuk Jurnal Mekanikal, UTM: 'Improving Productivity Through Line Balancing - A Case Study,' 2002
12. Penilai Artikel untuk Jurnal Mekanikal, UTM: 'Effect of Calcium Carbonate on the Strength of Glass-Polyester Laminates,' 2002
13. Penilai Kertas Kerja Jurnal Antarabangsa bagi Anugerah Penerbitan Universiti: 'Evaluation of Wear Mechanisms of Coated Carbide Tools When Face Milling Titanium Alloy,' 2001
14. Penilai Kertas Kerja Jurnal Antarabangsa bagi Anugerah Penerbitan Universiti: 'Wear Behaviour of PVD and CVD Coated Carbide Tools When Face Milling Inconel 718,' 2001
15. Penilai Artikel untuk Jurnal Mekanikal, UTM: 'An Approach to Modular Machine Redesign With Consideration of Fluid Flow,' 2001
16. Penilai Artikel untuk Jurnal Mekanikal, UTM: 'Characterisation of a Wave Soldering Process Using Taguchi Method,' 2000
17. Penilai Artikel untuk Jurnal Mekanikal, UTM: 'Development and Implementation of Computer Integrated Production Planning System for Job Shop Company,' 2000
18. Penilai Artikel untuk Jurnal Teknologi, UTM: 'Auto ID Technologies in Tool Management System,' 2000
19. Penilai Artikel untuk Proceedings of Second Intl. Conf. On Advanced Manufacturing Technology, 'Controlling the Critical Process Steps in Ceramic Injection Moulding,' 2000
20. Penilai 11 Artikel berikut untuk Ensiklopedia Sains dan Teknologi, UTM/DBP (1995 - 1998)
(Pemesinan Jet Pelelas, Pemesinan Ultrasonik, Pencanaian, Penggerudian Logam, Pemesinan Alur Plasma, Pembagasan Pasir, Acuan dan Die, Penuangan Cengkerang, Mengilir dan Superkemasan, Penempaan, Tuangan Empar)
21. Penilai Artikel untuk Jurnal Teknologi, UTM: 'Investigations on the Performance of Ultrasonic Drilling Process with Special Reference to Precision Machining of Advanced Ceramics,' 1996

C. ***PENILAIAN TESIS /SEMINAR LEPASAN IJAZAH***

1. Penilai Seminar PhD:
 - a. 'Partial Ductile Grinding of Glass,' (calon: Izman Sudin), 2000
 - b. 'Product Modelling Methodology to Facilitate Manufacturing Operations in a CAD Environment,' (calon: Johari Ab. Razak), 1997
2. Penilai Tesis Sarjana:

- a. 'Electrical Discharge Machining of Titanium Alloy,' (calon: Rival), 2003
 - b. 'Studies on Ballising as a Process For Manufacturing High Precision Low-Cost Cylindrical Bores,' (calon: Kalanithi Jayakumaran), 1997-1998
 - c. 'Computer Assisted System For Designing of Blanking Die,' (calon: Khandker Badrul Alam), 1995
3. Penilai Seminar MEng:
- a. 'The Effect of Nodularisation on the Quality of Ductile Iron,' (calon: Mohd Rashidi Maarof), 2006
 - b. 'Turning of Titanium 6AlV4 Low Cost Beta Alloys,' (calon: Mukhtar Malik), 2004
 - c. 'Performance Evaluation of Carbide Tools When Turning Hardened Steel,' (calon: Saiful Bahri Abd Jamil), 2004
 - d. 'Machining of Titanium Alloy Using EDM With Added Abrasives,' (calon: Rival), 2003
 - e. 'Development of A Binderless Diamond Grinding Wheel,' (calon: Ruslizam Daud), 2002
 - f. 'Performance of PCBN Inserts and CBN Coated Carbide Inserts,' (calon: Ngu Ching Kui), 2002
 - g. 'Machining of Nickel-based Alloys,' (calon: Tan Poh Lai), 2001
 - h. 'Ductile Grinding of Glass,' (calon: Thet Thet Mon), 2001
 - i. 'Performance Evaluation of RP Process,' (calon: Nur Fazidah Elias), 2001
 - j. 'Application Of FMEA for Failure Prevention – A Case Study,' (calon: Syed Helmi Syed Hassan), 2001
 - k. 'Assessment of CAD to RP Translation – Unigraphics to Quickslice,' (calon: Syaimak Abd. Syukor), 2001
 - l. 'The Production Method of Mg MMC Through PM Technique,' (calon: Mohd. Aslam Kabir), 1998
 - m. 'Design of Information Architecture for Supporting Machining of Prismatic Components,' (calon: Mohd. Ikhwan Jambak), 1998
 - n. 'Modelling the Cost of Quality in Malaysian Industries,' (calon: Ahmad Fuad Sulaiman), 1997
 - o. 'Generic Simulation Modelling of Inventory System in Manufacturing Plant,' (calon: Lau Yew Loon), 1997
 - p. 'Integrated Framework for Production Planning and Scheduling in Process Industry,' (calon: Mohamed K. Omar), 1997
 - q. 'Machinability Studies of Ceramic Tool in Machining Advanced Materials,' (calon: Mohamed Konneh), 1997
 - r. 'Development of an Expert System to Design Press Tools,' (calon: Khandker Badrul Alam), 1995
- D. **LAIN-LAIN**
1. Membaca Pruf Buku Terjemahan, 'Advanced Inorganic Chemistry' untuk Penerbit UTM, 2000
 2. Penilai Kawalan Mutu Artikel bagi 20 Kata Masukan untuk Ensiklopedia Sains dan Teknologi, UTM/DBP, 1998
(Kelvin, Kemudi, Keserupaan, Kimpalan, Kitar Carnot, Kuasa Enjin Pesawat, Mekanisme Servo, Mesin Pengukuran Koordinat, Pekali Bentuk, Pemesinan Alur

Plasma, Pemesinan Elektrokimia, Pemesinan Nyah Cas Elektrik, Pemvulkanan, Pengautomatan, Penggasan, Penggerudian Logam, Pengosongan dan Penembusan, Penuangan Cangkerang, Penyahlembap, Penyejukan Mampat Wap)

12.0 PEMBANGUNAN AKADEMIK DAN PROFESIONAL (Sebahagian)

1. Bengkel Pengurusan Ruang, Melaka, Februari, 2006
2. Bengkel Perancangan Strategik FKM, Februari, 2006
3. Bengkel 'Outcome Based Education,' Mac, 2006
4. Latihan peralatan Wire Cutting Electrical Discharge Machine, Jun, 2005
5. Latihan Perisian PamStamp, Julai, 2005
6. Kursus Penilaian Tahap Kecekapan, 2 minggu, 2004
7. Bengkel Kurikulum dan Kemahiran Asas, Julai 2004
8. Bengkel Sistem Penasihat Akademik, Mei 2004
9. Bengkel Pembinaan Indeks Ensiklopedia Sains dan Teknologi, 2002
10. Bengkel Teaching Portfolio, 2002
11. Kursus Penyuntingan, 2000
12. Lawatan Teknikal ke Hong Kong, untuk Biro Inovasi dan Perundingan UTM berkaitan Penubuhan Pusat Industri, 1 minggu, 1996
13. Latihan Metal Forming Instrumentations di Univesiti Kassel, Jerman, Anjuran Universiti Kassel / Syarikat HBM, 2 minggu, 1993
14. Attachment dengan Makmal Metal Forming Processes and Machine Tools, Universiti Kassel, di Bawah Program German Academic Exchange, 3 bulan, 1990
15. Kursus Sheetmetal Stamping Die Design and Making, Metal Institute Technology Centre, Anjuran Japan International Cooperation Agency, 5 minggu, 1985
16. Kursus Pendek Engineering Management, Institut Teknologi MARA, Shah Alam, 1 minggu, 1985

13.0 ANUGERAH

1. Hadiah Penghargaan bagi Anugerah Buku Terjemahan, Majlis Anugerah Kecemerlangan & Penghargaan UTM, September 2004
2. Penghargaan penyertaan (tempat kedua) Anugerah Penerbitan Naib Canselor bagi tahun 2003.
3. Anugerah Jasa Bakti, 2002
4. Projek pelajar PSM 'Grinding of Aluminium MMC' memenangi hadiah (Runner Up) 1998 International Prize for Quality Management, April 1999
5. Anugerah Kepujian Universiti 1997, April 1998
6. Pembentang terbaik, Seminar Penyelidikan Fakulti Kejuruteraan Jentera 1995, UTM, Julai, 1995
7. Anugerah German Academic Exchange, 1990
8. Pelajar Terbaik Kursus Bahasa Jerman, Goethe Institut, Kuala Lumpur, 1989
9. Johan Pertandingan 'Management Game', Kursus Pendek Engineering Management, ITM, Shah Alam, 2-7 Disember, 1985

14.0 KO-KURIKULUM / KHIDMAT MASYARAKAT

1. Wakil Fakulti ke Kejohanan Menembak UTM, 2005 (tempat ketiga)
2. Sukarelawan Kaunseling di Pusat Penawar, Johor Bahru, Anjuran Majlis Kebajikan Masyarakat Negeri Johor Darul Takzim, 1995 -
2. Peserta Jemputan, Program Perancangan Strategik Penubuhan Sekolah Menengah Agama, Johor Bahru, Januari, 1995
3. Sukarelawan Kaunseling, Unit Kaunseling Islah, Johor Bahru, dari 1994 hingga Januari 1996 dan 1997 -
4. Wakil Fakulti ke Kejohanan Menembak UTM, 1997 (tempat kelima)
5. Wakil Kelab FKM ke Pertandingan Persahabatan Badminton menentang PERSTIMA, 1999
6. Wakil Esclip Meca dalam Badminton, Sukan FKM, 2001
7. Wakil Esclip Meca dalam Badminton, Sukan FKM, 2001
8. Ahli Jawatankuasa Biro Takmir, Surau Taman Desa Skudai, 2000 - 2002
9. Pengaudit Dalaman, Badan Kebajikan dan Khairat Kematian Taman Desa Skudai, 2001 - 2003
10. Imam, Surau Taman Desa Skudai, Johor, 2000 - kini

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