

CURRICULUM VITAE



I. PERSONAL PARTICULARS

1. **NAME** : PROFESSOR DR. SAFIAN SHARIF
2. **I/C NO.** : 610621-04-5235
3. **DATE AND PLACE OF BIRTH** : 21 JUNE 1961, ALOR GAJAH MELAKA
4. **OFFICE ADDRESS** : Department of Materials, Manufacturing & Industrial Engineering
Faculty of Mechanical Engineering
Universiti Teknologi Malaysia
81310 UTM Skudai
Johor Darul Takzim

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- II. CURRENT POSITION** : **PROFESSOR**
Deputy Dean (Research and Scholarship)
School of Graduate Studies
Universiti Teknologi Malaysia

III. ACADEMIC QUALIFICATIONS

- Dip. In Mechanical Engineering, Ngee Ann Polytechnic, Singapore – 1981
B. Eng (Hons) Mechanical Engineering (Production), Universiti Teknologi Malaysia – 1986
MSc in Advanced Manufacturing Technology, UMIST, Manchester , UK, - 1991
PhD (Machining), Coventry University, UK – 2000

IV. SPECIALISATION

Metal and Aerospace Machining, Wood Processing, Investment Casting, Manufacturing Technology, CAD/CAM, CNC Machining, Sustainable Manufacturing, Product Design, Plastic Technology, Reverse Engineering, Rapid Prototyping, Rapid Tooling,

V. WORKING EXPERIENCE

1. Professor, UTM , Jan 2008 till now
2. Associate Professor, UTM, May 2000 – Jan. 2008
3. Lecturer, October 1989 – April 2000
4. Assistant Lecturer A, UTM, October 1988 – Sept. 1989
5. Engineer, Hitachi Consumer Products (M) Sdn. Bhd. 1986 – 1988

VI. ADMINISTRATION POSITIONS AND OTHER RESPONSIBILITIES

1. Deputy Dean (Research and Scholarship), School of Graduate Studies, UTM, 1 August till now
2. Head of Department External Programmes, Faculty of Mech. Engg., UTM, 1 June 2008 – May 2012
3. Panel Penilai Anugerah Kualiti Akademik UTM 2010, Jan 2011
4. Ahli Panel Penapis Jawatan Profesor Madya (Gred DS54) Peringkat Fakulti Kejuruteraan Awam, UTM, June 2013
5. Ahli Panel Penapis Jawatan Pensyarah Kanan (Gred DS52) Peringkat Fakulti Kejuruteraan Mekanikal, UTM, Feb 2011
6. Ahli Panel Penapis Jawatan Profesor dan Pensyarah Kanan Peringkat Fakulti Kejuruteraan Mekanikal, UTM, Disember 2009
7. Pengerusi Panel Penilai Anugerah Makalah Dalam Jurnal Kebangsaan dan Jurnal Antarabangsa, Penerbit UTM, Januari 2009
8. Ahli Jawatankuasa Penilaian Harga, Fakulti Kejuruteraan Mekanikal UTM, Ogos 2009 hingga sekarang
9. Committee Member of Quality Management, Fac. of Mechanical Engg, UTM, April 2009 till now
10. Member of Working Committee of Postgraduate Studies, Fac of Mechanical Engg, UTM, Mac. 2009 till now
11. Member of Materials & Manufacturing Research Alliance (MMRA), and Advanced Manufacturing and Research Group (MMRA), UTM, 2009 till now
12. Chairman of Viva Voce for Master of Engineering (Mechanical) Student, FKM, UTM, (Student Mohd Azril Bin Amil), 4 Mac 2009
13. Head of Manufacturing Panel, Faculty of Mech. Engg., UTM, 21 June 2007 till 21 June 2008
14. Head of Department of Manufacturing and Industrial Engineering, Faculty of Mech. Engg., UTM, Jan. 2003 – January 2007
15. Deputy Head of Advanced Materials & Manufacturing Cluster, RMC, UTM, Feb. 2007 till now
16. Head of Manufacturing Processes Area, Advanced Materials & Manufacturing Cluster, RMC, UTM, Feb. 2007 till now
17. Committee Member of Facility Management Planning, Faculty of Mechanical Engineering, UTM, Feb. 2007 till now
18. Head of Machine Syop, Fac. of Mech. Engg., UTM, 1989 – 1990, 1992 - 1993
19. Head of Production Laboratory, Fac. of Mech. Engg., UTM, 1993 – 1995, 2000 – 2002
20. Committee Member Postgraduate Studies Faculty of Mech. Eng. UTM, April 2009 – 31 Mac 2011
21. Quality Assurance Committee of Fac. of Mech. Engg., UTM – Head of Group 9 - Part III. Section 9 (Continuous Improvement) – 26 May 2003 to 25 May 2005
22. Internal Accessor for MLVK for BIP, UTM – General Machining Level 1 and 2 (General Machining (H-017-1), Turning Operation (H-014-2), Milling Operation (H-015-2) and Grinding Operation (H-016-2)) – December 2002 to May 2005
23. Course Coordinator for General Machining for MLVK Level 1 dan 2 at UTM for BIP, UTM – 2002 till now
24. Member of Manufacturing and Machinery Focus Group, UTM, 2000 till 2008
25. Ad-Hoc Committee Member for Visiting Professor Programme – Professor E. A. Elsayed from Rutgers University USA from 13 to 31 August 2006
26. Chairman for the FKM Colloquium, 16 August 2006 ((Presenter : Prof. Dr. E. A. Elsayed from Rutgers University USA)
27. Chairman for the FKM Colloquium, 10 August 2006 (Presenter : Prof. Dr. Awaluddin Mohd. Shahrourun)

28. Chairman for the FKM Colloquium, 15 Mac 2006 (Presenter : Dr. Izman Sudin)
29. Course Coordinator for Short Course on Manufacturing Processes and Engineering Materials for MARA Staffs at FKM, UTM, 3 – 7 July 2006
30. Industrial Training Supervision Semester III Sesi 2005/06, FKM, June 2006
31. Committee Member for Manufacturing Engineering and Industrial Engineering Programs, FKM, UTM, 11 October 2005
32. Organising Committee Member "Workshop on Product Lifecycle Support and Training for Small & Medium Enterprises" 5 – 6 December 2005, (28 Sep. 2005)
33. Working Committee Member for Accreditation of Fac. of Mech. Engg , UTM, 26 July 2005
34. Chairman of Viva Voce for Master of Engineering (Mechanical) Student, FKM, UTM, (Student Hilma Raimona Zadry), 18 Mac 2005
35. Technical Committee for Conf. on Engg. Education (CEE 2004), UTM, Sept. 2004
36. Organising Committee for the 2nd Workshop on Adv. Product Support Technologies (APOST) - (Design, CAD CAM, Rapid Prototyping and Virtual Manufacturing), 11 – 12 Dec., (13 Nov. 2003)
37. Chairman of Viva Voce for Master of Engineering (Mechanical) Student, FKM, UTM, (Student : Ahmed Omar Alasso) 6 Sept. 2002 and 26 Aug. 2004
38. Organising Committee "3rd Int. Conf. on Adv. Manufacturing Tech. (ICAMT 2004), UTM, May 2004
39. Chairman of Viva Voce for PhD (Mechanical Eng) Student, FKM, UTM, (Student Dodi Prayitno), 17 April 2002
40. Organising Committee for Short Course on Response Surface Methods, June 2001
41. Committee Member of ISO 9000 Faculty of Mech. Engg., UTM, December 2000
42. Organising Committee "2nd Int. Conf. on Adv. Manufac. Tech. (ICAMT 2000), UTM, Aug. 2000

VII. PROFESSIONAL COURSES/WORKSHOPS

1. Completed the Global Awareness Program in Korea organised by Human Resources Development Service of Korea (SIVAT) for Bengkel Jawatankuasa Penasihat Kurikulum, Bahagian Pendidikan dan Latihan (Kemahiran) MARA, bagi Program 'Sijil Teknologi Kejuruteraan Pembuatan' dan 'Diploma Teknologi Kejuruteraan Pembuatan' , 3 – 7 Oktober 2012.
2. Bengkel Penasihat Akademik, Fakulti Kejuruteraan Mekanikal, UTM, 10 Ogos 2011
3. Bengkel Prancangan Strategik Fakulti Kejuruteraan Mekanikal 2011- New Academia, Corus Paradise Resort, Port Dickson, Negeri Sembilan, 28 – 30 Julai 2011
4. Workshop on Curriculum Review and Malaysian Japan International Institute of Technology (MJIIT) Program Specification, 17 – 18 August, 2010, Impiana Hotel and SPA, KLCC.
5. Bengkel Semakan Kurikulum Fakulti Kejuruteraan Mekanikal, Pulau Desaru Beach Resort, 4 – 6 Ogos 2010
6. Bengkel Peraturan Akademik UTM SPACE, Suria Cherating Beach Resort, Pahang, 27 – 29 July 2010
7. Bengkel Prancangan Strategik Fakulti Kejuruteraan Mekanikal 2010, Awana Kijal, Terengganu 23 – 25 Mei 2010
8. Workshop Training of Trainers for Module How To Get Yourself Employed (HTGYE), Hotel Mahkota, Melaka, 15 – 17 July 2009
9. Kursus Perancangan Pengajaran Berkesan Bagi Pendidikan Berasaskan Hasil (OBE), Johor Bahru, 4 – 5 Feb 2009
10. Bengkel Prancangan Starategik Universiti Fasa III, MITC Ancasa Hotel, Melaka, 12 -14 Dis. 2008
11. Bengkel Pemantauan Projek FRGS Bil.1/2007 - Progress Monitoring For Cluster Advanced Material & Manufacturing, RMC, UTM, September 2007

12. Workshop on Accreditation Preparations, Faculty of Mech. Engg, UTM, 22 June 2007
13. Metal Cutting Applications Engineering Course, Sunway Lagoon Resort, Bandar Sunway, PJ, 7 to 9 Sept. 2006
14. Workshop on Reliability Engineering and Applications, BATC, UTM City Campus, KL, 29 Aug. 2006
15. Kursus Penyeliaan dan Penilaian Pengajian Siswazah (Kejuruteraan), The Puteri Pacific, Johor Bahru, 9 – 10 Ogos 2006.
16. Workshop on Outcome Based Education (OBE) - Document Preparations, Hotel Century Mahkota, Melaka, 17 – 19 Mac 2006
17. Workshop on Outcome Based Education (OBE) - Teaching Methods & Aessesments, Fac. of Mech. Engg., UTM, 8 Mac 2006
18. Course on "Train The Trainer", Rumah Alumini, UTM, 6 – 7 Mac 2006
19. Bengkel Ahli Jawatankuasa Penasihat Kurikulum untuk Matapelajaran Umum Teknikal, Bahagian Pendidikan dan Latihan (Kemahiran) MARA Kursus Diploma Teknologi Pembuatan, Hotel Eastin, PJ, Selangor, 14 – 16 Feb. 2006
20. Bengkel Peningkatan Kualiti Laporan Ahli Panel Penilai Bil 3/2005, LAN, Puteri Pan Pacific Hotel, Johor Bahru, 27 – 29 Sept. 2005
21. Bengkel Kecemerlangan Pentadbiran Akdemik 2005 Untuk Pentadbir Akademik, UTM, Desaru Golden Beach Resort, Kota Tinggi, Johor, 23 – 25 Sept. 2005
22. Bengkel Ahli Jawatankuasa Penasihat Kurikulum 'Diploma Tool & Die Technology' dan 'Diploma Mould Making Technology', Bahagian Pendidikan dan Latihan (Kemahiran) MARA Kursus Diploma Teknologi Pembuatan, Hotel Eastin, PJ, Selangor, 13 – 15 Sept. 2005
23. Seminar Pencambahan Pemikiran Islam Hadari (Pengurusan Negara Islam) Peringkat IPTA/IPTS, Pesyarah dan Pengurusan Professional, Anjuaran bersama Sekretariat Islam Hadhari dan KUITTHO, KUITTHO, 4 Ogos 2005
24. Bengkel Ahli Jawatankuasa Penasihat Kurikulum 'Sijil Teknologi Pembuatan' dan 'Diploma Manufacturing Technology' Sijil Bahagian Pendidikan dan Latihan (Kemahiran) MARA, Hotel Eastin, PJ, Selangor, 19 – 22 Julai 2005
25. Workshop on Outcome Based Education (OBE) - Teaching Methods & Aessesments, Fac. of Mech. Engg., UTM, 13 July 2005
26. Asean Education Symposium in "CNC Manufacturing", German Malaysian Institute, 29 June 2005
27. Bengkel Perancangan Strategik dan Kurikulum Program Sarjana Kejuruteraan Pembuatan Termaju dan Kursus Baru Sarjana Kejuruteraan Industri, FKM, UTM, Century Mahkota Hotel, Melaka, 6 – 8 Jun 2005
28. Bengkel Penyediaan Dokumen Spesifikasi Program UTM, Unit Pembangunan Sumber Manusia UTM, Hotel Renaissance, Melaka, 6 – 8 Mei 2005
29. Bengkel E-Learning untuk Ketua Jabatan dan Ketua Panel Matapelajaran, FKM, UTM, 2 Mac 2005
30. Workshop to Discuss Cooperation Opportunities Between the EU and Malaysia in the Field of Research and Innovation – jointly organised by the European Comission Delegation in Malaysia, Ministry of Health and MOSTI, IMR KL, 18 Feb. 2005
31. Bengkel 'Review' Kumpulan Fokus – Current Achievement & Future Directions, Research Management Centre, UTM, Guoman Port Dickson Resort, Negeri Sembilan, 30 Dis.2004 – 1 Jan. 2005
32. Cost Control and Improvement Activities, Organised by Association for Overseas Technical Scholarship (AOTS) and Persatuan Alumini AOTS Malaysia (PAM), 20 – 21 Dec. 2004
33. Kursus Penialain Tahap Kecekapan (PTK), DS54/TK6, UTM, 25 Okt. – 8 Nov. 2004
34. Kursus Kaedah Pengajaran dan Pembelajaran (P & P) – Penerapan Kemahiran Generik Di Kalangan Pelajar UTM untuk Ketua Jabatan, UTM, 9 – 11 Ogos 2004

35. Bengkel Persediaan Perancangan Kerja Bagi Projek Top Down IRPA, " Development of New Cutting Tools for Ultra Precision Processing of Materials" , Corus Paradise Resort, Port Dickson, Negeri Sembilan, 28 – 30 Julai 2004
36. Bengkel Pendedahan dan Latihan Lanjutan Problem Based Learning (PBL) Dikalangan Timbalan Dekan, Ketua Jabatn dan Staf Sumber PBL Fakulti di UTM, Unit Pembangunan Sumber Manusia UTM, Rumah Alumni UTM, 19 – 20 Julai 2004
37. Bengkel Penasihatn Akademik Siri 2, FKM, UTM, 14 dan 15 Jun 2004
38. Bengkel Masalah Sosial Disiplin dan Penguakusaaan Tatatertib Pelajar, HEP, Pulau Spring Resort, Johor, 29 – 30 April 2004
39. Bengkel Penyediaan Laporan Kendiri Jaminan Kualiti FKM, Pulau Spring Resort, Johor, 12 April 2004
40. Bengkel Jaminan Kualiti, Fakulti Kejuruteraan Mekanikal UTM, Allson Klana Resort, Seremban, Negeri Sembilan, 15 – 18 Okt. 2003
41. Bengkel penyediaan Modul MLVK, Biro Inovasi dan Perundingan UTM, Tanjung Puteri Golf Resort Berhad, Pasir Gudang, Johor, 15 – 17 Ogos 2003
42. Bengkel Perancangan Strategik Jabatan Perundingan dan Jabatan Pemindahan Teknologi, Biro Inovasi dan Perundingan UTM, Corus Paradise Resort, Port Dickson, Negeri Sembilan, 16 – 18 Mei 2003
43. SolidWorks 2001 Plus Essential Course, UTM Skudai, Oct. 2002
44. One Day Seminar on High Speed & High Precision Machining, KUTKM Melaka, 30 July 2002
45. Workshop on Government and Industry Collaboration on Innovation (GAIN 2002), 21 – 23 Jun 2002
46. Bengkel Sistem Klasifikasi Penyelidikan & Pembangunan (P & P) Malaysia, anjuran MASTIC, Pulau Langkawi, 19 – 21 Mei 2002
47. Kursus Kecermelangan diri dan Organisasi, The Emperor Hotel, 3 – 6 Jun 2002
48. DASYlab Basic Training, Petaling Jaya, 20 – 21 Mac 2002
49. Short Course "Response Surface Methods", FKM, UTM, 30 June – 1 July 2001
50. Bengkel Penyemakan Proposal IRPA RMK 8, UTM, 12 Jun 2001
51. Bengkel Perancangan Startegik R & D (2001 – 2005), Renaissance Palm Garden Hotel, Putrajaya, 29 Oktober – 1 Nov. 2000
52. Short Course on Specimen Preparation and Metallography, Fac. of Mech. Engg, UTM, Nov. 2000
53. Kursus Audit Kualiti Dalamam untuk Persijilan ISO 9000 dan Pembaikan Berterusan, BATC, UTM KL, 11 – 12 Sept.2000
54. Course on Stratasys FDM Rapid Prototyping on ABS, Elastomer and Investment Casting Wax, June 2000
55. Bengkel Penilaian Kelulusan, Tahap Minimum dan Perakuan Akreditasi Bil 7/2000 anjuran LAN, UTM, 26 Mei 2000
56. Training on the Operation of MK Vacuum Casting System and the Basic Tooling Application, Feb 2000
57. Mould and Die Design, UTM, 1993 by CIAST (2 Weeks)
58. Fundamental on CNC Programming (Milling), German Malaysian Institute, 1993 (One Week)
59. Course on CNC Retrofit Lathe, India, 1992 (One Month)
60. Course on CNC Programming (Turning and Milling) at UTM, 1992
61. Manufacturing Engineering and Management, India, June 1990 – Aug. 1990
62. Tech. Training Course in Inspection and Quality Control of CTV Parts (AOTS) at Hitachi Ltd. Japan, June 1987 – Oct. 1987 Industrial Arts & Technology

VIII. ADVISORY/EXAMINER/TECHNICAL COMMITTEE

1. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Master of Engineering Science (By Research), (MQA/PA 4922), Nilai University, Mac1 2014
2. Pakar Rujuk Untuk Penilaian Nilai Taraf Agensi Kelayakan Malaysia (MQA) dalam bidang Kejuruteraan Mekanikal dan Teknologi Pembuatan, Feb 2014.
3. Panel Hakim Pameran dan Pertandingan Industrial, Art & Technology Exhibition (INATEX 2013), UTM, 2 Okt. 2013
4. External Auditor of Accreditation for Postgraduate Programme, Universiti Kebangsaan Malaysia, 28 – 29 August 2013
5. Technical Committee, International Conference on Mechanical Engineering (ICOME 2013), ITSN, Lombok Indonesia, 12 – 14 September 2013
6. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Diploma in Mechanical Engineering, (MQA/FA 3295), Politeknik Sultan Azlan Shah, Behrang, Sept. 2013
7. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Diploma in Mechanical Engineering, (MQA/FA 3065), Politeknik Sultan Mizan Zainal Abidin (PSMZA), Dungun Terengganu, Mac. 2013.
8. German Malaysian Institute (GMI) External Verifier for Final Year Project for Diploma in Production Technology (Mould Technology) and Diploma in Production Technology (CNC Precision Machining), June 2013
9. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel on Assessment of the Equivalent Skill Programmes “Juruteknik Industri (H-100-3)”, “Mekanik Industri (H-100-2)” and “Mekanik Industri (H-100-1)”, Kolej WIT, Klang, 2012
10. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel on Assessment of the Equivalent Skill Programmes “Jurutera Pembinaan dan Penyelenggaraan Mesin (H-100-5)” and “Pembantu Jurutera Pembinaan dan Penyelenggaraan Mesin (H-100-4)”, IKBN Pagoh, Okt. 2012
11. Ahli Jawatankuasa Kurikulum Program Baru: Sarjana Sains Pembangunan Produk, UTM Razak School, Feb. 2012. UTM International Campus, Kuala Lumpur.
12. Panel of Expert for Malaysian-Japan International Institute of Technology (MJIT) Research Workshop, 15 Mac. 2012, Kuala Lumpur
13. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Master of Mechanical Engineering, (MQA/PA 1980), UMP, Pahang, Mac. 2012.
14. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Master of Mechanical Engineering (Product Design), (MQA/PA 1500), Universiti Teknikal Malaysia Melaka (UTeM), Melaka, Mac. 2012.
15. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Master of Engineering (Mechanical), (MQA/PA 1990), Universiti Tunku Abdul Rahman (UTAR), Kuala Lumpur, Feb. 2012.
16. German Malaysian Institute (GMI) External Verifier for Final Year Project for Diploma in Production Technology (Tool & Die Technology) and (CNC Precision Technology), 14 – 16 Dec 2011.
17. Ahli Jawatankuasa Penasihat Kurikulum, Bahagian Pendidikan dan Latihan (Kemahiran) MARA, bagi Program ‘Sijil Teknologi Kejuruteraan Pembuatan’ dan ‘Diploma Teknologi Kejuruteraan Pembuatan’, Oktober 2011.
18. German Malaysian Institute (GMI) External Verifier for Final Year Project for Diploma in Production Technology (Product Design and Manufacturing), 21 – 24 June 2011
19. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Bachelor of Manufacturing Engineering Technology (Process and Technology), (MQA/PA 0700), UTHM, April 2011.
20. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Bachelor of Manufacturing Engineering Technology (Product Design), (MQA/PA 0701), UTHM, Batu Pahat, April 2011.
21. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Sarjana Muda Teknologi Kejuruteraan Mekanikal (Loji) dengan Kepujian (MQA/PA 0711), UTHM, Batu Pahat, March 2011.

22. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Bachelor of Mechanical Engineering Technology (Manufacturing), (MQA/PA 0714), UTHM, Batu Pahat, Mac. 2011.
23. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Bachelor of Vocational Education (General Machining), (MQA/PA 0492), UTHM, Batu Pahat, Mac. 2011.
24. Panel Penilai Kertas kerja Geran Universiti Penyelidikan (GUP) untuk MMRA UTM, Feb 2011.
25. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Doctor of Philosophy in Mechanical Engineering, A 8149, UTP, Tronoh, Perak, Feb. 2011.
26. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Master of Science in Mechanical Engineering, A 8048, UTP, Tronoh, Perak, Feb. 2011.
27. German Malaysian Institute (GMI) External Verifier for Final Year Project for Diploma in Production Technology (Tool and Die Technology), 21 – 23 Dec 2010
28. External Verifier for Final Year Project For Diploma in Tool and Die, Kolej Kemahiran Tinggi MARA Balik Pulau, 11 Dec. 2010
29. German Malaysian Institute (GMI) External Verifier for Final Year Project for Diploma in Production Technology (Tool and Die Technology), 29 June - 2 July 2010
30. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Bachelor of Engineering (Honours) (Product Design), AA 0364, UNIMAP, Perlis, May 2010.
31. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Master of Engineering in Advanced Manufacturing Management, A5835, MMU Melaka, April 2010
32. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Bachelor of Engineering Technology (Honours) Welding and Quality Inspection – A7628, UniKL-MFI, Mac 2010
33. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Bachelor (Honours) of Engineering Technology (Hons) Manufacturing and Machine Tool – A7629, UniKL-MFI, Mac 2010
34. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Bachelor of Engineering (Hons) Mechanical Engineering 3 + 0 in Collaboration with Coventry University, UK (A9346), Kolej Linton Feb 2010
35. German Malaysian Institute (GMI) External Verifier for Final Year Project for Diploma in Production Technology (Tool and Die), 21 – 23 December 2009
36. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Certificate in Manufacturing Engineering (Product Design) – AL0071, PERDA TECH, Pulau Pinang, June 2009
37. German Malaysian Institute (GMI) External Verifier for Final Year Project for Diploma in Production Technology, (Product Design and Manufacturing), June 2009
38. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Diploma in Manufacturing Eng. (Tool and Die Design) – A6962, Kolej Universiti TATI (TATiUC), Terengganu, Mac. 2009
39. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Diploma in Manufacturing Eng. (Tool and Die Making) – A6963, Kolej Universiti TATI (TATiUC), Terengganu, Mac. 2009
40. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Certificate in Manufacturing Engineering (Product Design) – A8296, Kolej Universiti TATI (TATiUC), Terengganu, Jan 2009
41. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Certificate in Manufacturing Engineering (Machining) – A8294, Kolej Universiti TATI (TATiUC), Terengganu, Jan 2009
42. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Advanced Diploma in Technology (Mechanical and Manufacturing Engineering) – AA0041, Kolej Tunku Abdul Rahman (KTAR), Main Campus, Kuala Lumpur, Jan 2009
43. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Diploma in Technology (Mechanical and Manufacturing Engineering) – AA0045, Kolej Tunku Abdul Rahman (KTAR), Main Campus, Kuala Lumpur, Jan 2009
44. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Certificate in Technology (Mechanical Engineering) – AA0051, Kolej Tunku Abdul Rahman (KTAR), Main Campus, Kuala Lumpur, Jan 2009

45. Ad-Hoc Committee Member for Visiting Professor Dr. Allen Clegg from Loughborough University, UK, 10 – 20 February 2008
46. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Master of Engineering Science (MengSc) - A 8271, Universiti Multimedia, Melaka Main Campus dan Cyberjaya Campus, Oct to Dec 2007
47. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Master of Engineering Science (MengSc) - A7889, Universiti Multimedia, Cyberjaya Campus, Oct. 2007 to Jan 2008
48. National Advisory Committee for National Metallurgical Conference 2007, Faculty of Mechanical Engineering, UTM, Sept 2007
49. Malaysian Quality Assurance (MQA) Accreditation Accessor Panel for Approval of Sarjana Muda Teknologi Kejuruteraan (Kepujian) Sistem Pembuatan (KA 8783), Universiti Kuala Lumpur – Kampus Kota), Sept. 2007
50. Ahli Jawatankuasa Penilai LAN bagi Kelulusan Program Sijil Kejuruteraan Pembuatan (Rekabentuk Produk) (KA 8296) TATI, Ogos 2007
51. Ahli Jawatankuasa Penilai LAN bagi Kelulusan Program Sijil Kejuruteraan Pembuatan (Pemesinan) (KA 8294) TATI, Ogos 2007
52. Committee Member for German-Malaysian Institute Industry Advisory Committee (GMI-IAC), GMI, July 2007
53. Ahli Jawatankuasa Penilai LAN bagi Kelulusan Program Sarjana Muda Kejuruteraan Teknologi (Kepujian) Pembuatan (Automotif) – (KA8200) UniKL-MSI), Julai 2007
54. Ahli Jawatankuasa Penilai LAN bagi Kelulusan Program Sarjana Teknologi Kejuruteraan (Penyelidikan) – Sepenuh Masa dan Separuh Masa (KA 8065) UniKL, Mei 2007
55. Ahli Jawatankuasa Penilai LAN bagi Kelulusan Program Master of Mechanical and Manufacturing Engineering (KA 8018) IUCTT, Jan. 2007
56. Panel Penilai Tapisan Peringkat Kedua dan Temuduga Biasiswa Penyelidikan National Science Fellowship (NSF) 2/2004 – Bidang Rekabentuk Kejuruteraan/Industri, MOSTI, Sep. 2006
57. German Malaysian Institute (GMI) Final Year External Verification on Final Year Project and Diploma Programs i.e Diploma in Production Technology (Tool and Die Technology) and Diploma in Production Technology (Mould Technology), June 2006
58. Penilai Laporan Akhir Projek Penyelidikan RMC, UTM bertajuk “Optimization of the Investment Casting Mould Production Procedure for Non-Ferrous Alloys” Vot 75063, Jun 2006.
59. Panel Penilai Dalam Escience RMK9 bagi Cluster Advanced Manufacturing, RMC, UTM, 24, 25 dan 26 Mei 2006.
60. Expert Panel (Ordinary Member) for the National Brain Programme, Akademi Sains Malaysia, May 2006
61. Penilai Akreditasi LAN bagi Kursus Diploma in Product Design & Manufacturing (KA 7165) German-Malaysian Institute (GMI), Mac. 2006
62. International Advisory Committee for the International Conference on Manufacturing and Material Processing (ICMM 2006), organised by Universiti Malaya, 14 – 16 Mac. 2006, Malaysia
63. Pengerusi Panel Penilai Akreditasi Kursus Ijazah Kejuruteraan (Tool & Die) (A1327) UniKL, untuk Lembaga Akreditasi Negara (LAN), 22 – 23 Feb. 2006.
64. Panel of External Advisory for German-Malaysian Institute (GMI) New Diploma Program Development (Diploma in CNC Precision Technology), December 2005
65. Personal Referee for Promotion to Professor Grade ‘C’ for UKM staff, 14 Dec. 2005
66. Panel Penilai LAN bagi Akreditasi Kursus Ijazah Teknologi Kejuruteraan (Tool & Die) (A1327) UniKL, Sept. 2005
67. Panel Penilai LAN bagi Akreditasi Kursus Ijazah Teknologi Kejuruteraan (Product Design) (A 1368) UniKL, Sept. 2005

68. Ahli Jawatankuasa Penasihat Kurikulum Bahagian Pendidikan dan Latihan (Kemahiran) MARA bagi kursus 'Diploma Tool & Die Technology' dan 'Diploma Mould Making Technology', Sept. 2005
69. Penasihat Program COMET 2006 (Conference of Manufacturing and Electronic Technology), SME, Student Chapter S227, UTM, Ogos 2005
70. Ahli Jawatankuasa Penasihat Kurikulum Bahagian Pendidikan dan Latihan (Kemahiran) MARA, bagi kursus 'Sijil Teknologi Pembuatan' dan 'Diploma Manufacturing Technology', Julai 2005
71. Panel Members of Asean Institution and Industry Partnership between Germany, Singapore, Indonesia and Malaysia, GMI, 20 June 2005
72. Panel Penilai Lembaga Akreditasi Negara (LAN) dari April 2005 hingga April 2007
73. Panel Penilai Dalam Kumpulan Fokus Manufacturing & Machinery bagi Bengkel Pemantauan Projek IRPA, RMC, UTM – 28 Mac 2005
74. Panel Penilai LAN bagi Akreditasi Kursus Diploma in Manufacturing Technology (Machining) TATI, Terengganu, Jan.2005
75. Panel Penilai Tapisan Peringkat Kedua Biasiswa Penyelidikan National Science Fellowship (NSF) 2/2004 – Bidang Rekabentuk Kejuruteraan/Industri, MOSTI, Nov. 2004
76. Panel Penilai LAN bagi Kelulusan Kursus M. Eng Knowledge Based Manufacturing, MMU, Nov. 2004
77. Member of Board of Study for Bachelor of Manufacturing Engineering Program, for School of Engg, Kolej Agama Sultan Zainal Abidin (KUSZA), Terengganu, Aug. 2004
78. Panel Penilai Akreditasi LAN bagi Kursus B. Eng. Tech (Product Design) UNIKL, Aug. 2004
79. Advisory Panel for Equipment Specifications for Faculty of Mechanical Engineering, KUKTEM, Pahang – Aug. 2004
80. Member of Board of Study for Bachelor of Information Technology (Manufacturing) Program for Fac. of Information Science and Tech., UKM, Bangi Selangor, July 2004
81. Panel Penilaian Pakar Bagi Permohonan IRPA Cadangan Konsep Kategori Priority Research (PR): "Development of Multi-Axes CNC Machine Controller" di SIRIM, 27 Mei 2004.
82. Panel Penilai Proposal Projek Penyelidikan IRPA RMK 8 Kategori PR/SR, RMC UTM, Mei 2004
83. Panel Penilai Akreditasi LAN bagi Kursus B. Eng. Tech (Tool and Die) UNIKL, Sept. 2003
84. Panel of Technical Assessor in the Evaluation of IGS Application (Development of New and Innovative Sensor, Signal Conditioning and Application (SESCA) Technology Utilizing Air Particle Acceleration Signal, MOSTE, Mac.2003.
85. Panel Penyediaan Dokumen "Malaysian Research and Development Classification System" Edisi Ke Empat, untuk MASTIC, Pulau Langkawi, Mei 2002
86. Jawatankuasa Penasihat Teknikal Pembelian Peralatan Makmal FKM, KUTKM, Okt. 2002
87. Panel Penilai Proposal IRPA Kategori (EAR) dan Projek Penyelidikan Jangka Pendek Peringkat Kumpulan Fokus dan JKKP Fakulti, Jan. 2002
88. Panel Penyediaan Kurikulum dan Silibus untuk Kolej Universiti Teknikal Kebangsaan Malaysia (KUTKM), Mac, 2001
89. Panel Penilai Proposal Projek Penyelidikan IRPA RMK 8 dibawah Kumpulan Fokus Manufacturing & Machinery, RMC UTM, 27 Jun 2001
90. Panel Penilai Lembaga Akreditasi Negara (LAN) dari Ogos 2000 hingga Julai 2002
91. Panel Penyediaan Spesifikasi Alat untuk Politeknik Shah Alam and Kementerian Pendidikan Malaysia, Mac. 1996
92. Panel Penyediaan Spesifikasi Alat untuk Pusat Latihan Staf Politeknik (PLSP), Batu Pahat, Ogos, 1993
93. Panel Penilaian Teknikal Tender untuk Pembelian Alat PLSP, Batu Pahat, Ogos 1994

IX. CONSULTANCY/EXPERTISE SERVICES

1. Visiting Professor for Faculty of Engineering Technology, Universiti Tun Hussien Onn (UTHM), January 2014 to December 2015
2. External Assessor for Department of Manufacturing and Materials Engineering Programme, Kulliyah of Engineering, International Islamic Universiti Malaysia, From October 2013 to September 2015.
3. External Examiner for Faculty of Manufacturing Engineering programme, Universiti Teknikal Malaysia Melaka from February 2013 to January 2015.
4. External Assessor for Promotion to Associate Professor of Universiti Tun Hussien Onn (UTHM) staff, December 2013.
5. External Assessor for Promotion to Associate Professor of Universiti Malaysia Sarawak (UNIMAS), staff, March 2013.
6. Fasilitator untuk *Bengkel Pemurnian Sistem Pengurusan Program Pengajian Separuh Masa*, Pejabat Program Luar, Fakulti Kejuruteraan Mekanikal, Melaka, 9 April 2013
7. Consultant for Workshop on OBE Implementation on 13th October 2012 at Sunway University staffs, 13 October 2012
8. Consultant for Academic Review Retreat Series 01/2012: OBE Implementataion for UniKL-IPROM staffs, 19 – 20 May 2012, Flamingo Hotel, Selangor
9. External Assessor for Promotion to Associate Professor of Universiti Teknikal Malaysia Melaka (UTeM) staff, June 2012.
10. External Assessor for Promotion to Associate Professor of Universiti Tun Hussien Onn (UTHM) staff, March 2012.
11. Trainer for 4th Internal Auditor Training (Establishment) for UniKL Auditors, 7 – 8 Mac. 2012, UniKL-MFI, Bangi , Selangor.
12. External Assessor for Promotion to Associate Professor of International Islamic University Malaysia (IIUM) staff, Dec 2011.
13. Curriculum Advisory Committee for Bahagian Kemahiran Dan Teknikal MARA, for Certificate in Manufacturing Technology and Diploma in Manufacturing Technology for IKM/KKTM, October 2011
14. Facilitator on Course “Teaching The Trainers in Product Design and Development”, German Malaysian Institute (GMI), 28 July 2011
15. External Evaluator for Faculty of Mechancial Engineering Colloquium 2011, Universiti Malaysia Pahang, 1 July 2011.
16. A Comprehensive Study For Presentation as a Response on the National Automotive Policy to the Govt, Sponsor by Malaysia Automotive Recyclers Assoictaion (MAARA), Dec. 2010 – June 2011
17. External Assessor for Promotion to Professor Grade C, Faculty of Engineering and Built Environment staff, Universiti Kebangsaan Malaysia (UKM), June 2011
18. Board of Studies for Bach. of Eng. (Mechanical) Programme, UniKL-MFI, Nov 2010 to Oct 2012
19. Penilai Luar bagi Penilaian Permohonan Projek Arus Perdana 2010, Universiti Kebangsaan Malaysia (UKM), Julai 2011.
20. Appointment as an Expert for Malaysia-Japan International Institute of Technology (MJIIT) Research Workshop, 15 Mac 2011, Kuala Lumpur
21. Referee for Promotion to Associate Professor DS 54, Fakulti Teknologi dan Sains Maklumat staff, Universiti Kebangsaan Malaysia (UKM) staff, Dec. 2009
22. External Accessor for Promotion to Professor Grade C, Faculty of Engineering and Built Environment staff, Universiti Kebangsaan Malaysia (UKM), July 2009
23. Referee for Promotion to Professor Grade C of Faculty of Engineering and Built Environment Universiti Kebangsaan Malaysia (UKM) staff, Dec. 2009
24. Evaluation of Carbide End Mill when Milling Hardened Steel for Precisetech Sdn Bhd, Aug 2008 to Feb. 2009

25. German Malaysian Institute (GMI) External Advisor for KKTM Balik Pulau Guided Project. Mar 2008
26. Curriculum Advisor for Kolej Kemahiran Tinggi MARA (KKTM) Alor Gajah, Melaka, Aug 2007
27. Lecturer for Special Program UTM and Ministry of Defence – Course for Officer on Ammunition Techniques Series PKP/15/2006-2007, Subject Taught : Manufacturing Technology, UTM. 7 May – 17 Aug. 2007
28. Evaluation of Carbide Tool when End Milling (SKD11) for Precisetech Sdn Bhd, Mac. 2007
29. Conducting a Short Course on Manufacturing Processes for MARA Staffs at UTM Skudai, 3 – 7 July 2006
30. Expert Review for article of international journal for the UTM Publication Day Award 2006, with title “The Novel Bondless Wheel, Spherical Glass and a New Method of Aspheric Generation” , Penerbit UTM, 5 May 2006
31. Evaluation of Carbide Ball End Mill when Contour Milling Carbon Steel (S50C), Hardened Steel (HPM38) and Stainless Steel (SKD11) for Precisetech Sdn Bhd, May. 2005 to July 2005
32. Lecturer for Special Program UTM and Ministry of Defence – Course for Officer on Ammunition Techniques Series PKP/14/2005-2006, Subject Taught : Manufacturing Technology, UTM. 9 May – 20 Aug. 2005
33. Evaluation of Carbide End Mill when Contour Milling Carbon Steel (S50C), Hardened Steel (HPM38) and Stainless Steel (SKD11) for Precisetech Sdn Bhd, Mac. 2005 to May 2005
34. Conducting a Short Course on Reverse Engineering and Rapid Prototyping for UniKL, at UTM Skudai, 15 – 16 June 2004
35. Evaluation of Carbide End Mill and Ball Mill when Milling Carbon Steel and Hardened steel for Precisetech Sdn Bhd, Sept. 2003 to Feb. 2004
36. Product Measurement using CMM for Texchem-Park (Johor) Sdn. Bhd. – Vot 63003., Dec. 2003 Jan. 2004
37. Lecturer for Special Program UTM and Ministry of Defence – Course for Officer on Ammunition and Explosives, Sem. I 2003/2004, Subject Taught : Manufacturing Technology, UTM. 5 May – 24 Aug. 2003
38. Penyediaan Modul MLVK bagi Kursus Pemesinan Am Tahap Satu dan Tahap Dua untuk Biro Inovasi dan Perundingan, UTM Skudai, 2002 hingga 2003
39. Vacuum Casting of a Toy Product for Black Aces, Aug, 2002
40. Part Time Lecturer For Kolej Universiti Teknologi Tun Hussein Onn (KUiTHHO), Batu Pahat Johor, Sem. I 2001/02, Subject Taught: Manufacturing Processes (BMM 4153)
41. Rapid Prototyping of Plastic Extension Plug and Accessories for Reliance Plastic Sdn. Bhd., Feb. 2001
42. Conducting a Short Course on Plastic Technology – Injection Moulding for ML Plastics Industries (PK) Sdn. Bhd., Nov. 2000
43. Reverse Engineering of a Plastic Toy for Reliance Plastic Sdn. Bhd., Mac. 2000
44. Technical Proposal – Setting up of a Water Pump Assembly Factory for Syarikat Rahman Brothers Industries (SRBI) Sdn. Bhd. , Feb. 1996 to July 1996
45. Technical Proposal – Procurement of Rapid Prototyping Facilities for Bureau of Innovation, UTM, Jan to June 1996
46. Conducting a Short Course on Design of Plastic Mould for PUSPATRI, Pasir Gudang, Nov/Dec. 1995
47. Technical Proposal – The Setting Up of a Workshop Complete with Storing Facilities for R&D Centre of Tenaga Nasional Bhd. , Nov. 1994 – Jan. 1995
48. Mewakili Komiti Teknikal Tender Semasa Sesi Perbincangan dengan Bahagian Pembekalan Kem. Pendidikan M'sia untuk Tender Pembelian Alat PLSP, Ogos. 1994

49. Conducting a Short Course on Operation and Maintenance of Lathe Machine for Vocational Sch. Teachers (under the collaboration with Ministry of Edu., Ogos 1994)
50. Reverse Engineering of a Car Lamp for Orca Design Consultant Sdn. Bhd., Jan. to Julai 1994

X. INVITED SPEAKER/TECHNICAL TALK

1. Technical Talk on “*Quantitative Measurement of Machined Wood Surface Roughness*”, External Assessor for Department of Manufacturing and Materials Engineering Programme, Kulliyah of Engineering, International Islamic Universiti Malaysia, 13 November 2013.
2. Technical Talk on “*Sustainable Product Design in Concurrent Engineering Perspective*”, External Examiner Visit at Department of Materials, Manufacturing and Industrial Engineering, Faculty of Mechanical Engineering, UTeM, Melaka, 19 September 2013
3. Penceramah Wacana Pembangunan Penyeliaan Siswazah Penyelidikan for UTM Staff, UTM KL, 26 – 27 June 2013
4. “Challenges in Supervision”, speaker for the Discourse on the Development of Research Graduate Supervisory for UTM Staff, UTM Skudai, 27 March 2013,
5. Course on Study Skill for Part Time Diploma Students, UTMSPACE, Johor Bahru, 25 June 2011.
6. Keynote speaker on “Evaluation of Sanded Wood Surface Roughness with Anatomical Filters” for the 1st Int Conf. on Advanced Manufacturing (ICAM 2011), TATiUC, Terengganu, 24 May 2011
7. Technical talk on “Sustainability Development” for Department of Manufacturing and Industrial Engineering students, Faculty of Mechanical Engineering, UTM, 15 April 2011
8. Study Skill, Issues, Techniques and Tactics on Effective Learning for Part Time Adult Learners, UTMSPACE, 17 July 2010 and 8 Jan 2011, UTM International Campus.
9. Taklimat Kesedaran Outcome-Based Education (OBE) Dalam Pengiktirafan Program Kejuruteraan, 14 Mac 2009, Pusat Pembelajaran Pulau Pinang. UTMSPACE
10. “Evaluation of Coated and Uncoated Carbide Tools when Drilling Titanium Alloy Ti-6Al-4V” Colloquium Fac. of Mech. Engg., UTM, 5 Sept. 2007
11. “High Speed Machining”, Seminar: HSM for the Future, German Malaysian Institute (GMI), 27 - 28 Aug. 2007
12. “Research Direction and PhD Topics in Manufacturing”, Colloquium Department of Manufacturing and Industrial Engg., Faculty of Mech. Eng. UTM, Sept. 2006
13. “Kecermelangan Ilmu – Teknik Pembelajaran yang Betul” Ceramah Jemputan Program Perkhemahan Akademik Pelajar Tahun 1 SMP, Mutiara Motors Resort, Kuala Sedili Kecil, Kota Tinggi, 4 Mac. 2006
14. “Manufacturing Industry in Malaysia: Present Development and Direction in the Future”, Ahli Panel Forum bagi Seminar on Adv. Manuf. Tech. '05, UTM. 6 Sept. 2005
15. Sesi Taklimat Ibubapa Pelajar Baru Pendaftaran Sesi 2005/06, FKM, 2 – 3 Julai 2005
16. “Rapid Prototyping and its Application” , jointly organised by FKM, UTM dan MT Solution, UTM, 24 – 25 Jun 2005
17. “Innovation Through Prototyping & Reverse Engineering” organised by Small and Medium Industries Development Corporation (SMIDEC), Sirim Berhad Senai Johor, 7 Oct. 2004
18. “Rapid Prototyping and Virtual Manufacturing Case Studies”, Workshop on Product Design, Time Compression Engineering and Virtual Manufacturing fo SMEs’, organised by Thailand Advanced Product Support Technologies (APoST), Inst. of Small and Medium Enterprise Development (ISMED), Thailand, 8 – 9 Dec. 2003
19. “Rapid Prototyping and Virtual Manufacturing Case Studies”, 2nd Workshop on Advanced Product Support Technologies (APoST) - (Design, CAD/CAM, Rapid Prototyping and Virtual Manufacturing), organised by UTM APoST Centre, 11 – 12 Dec. 2003, UTM KL

20. "Application of Reverse Engineering and Rapid Prototyping in Plastic Mould Making" Workshop on Advanced Product Support Technologies (APoST) - (Design, CAD/CAM, Rapid Prototyping and Virtual Manufacturing), organised by UTM APoST Centre, 18 – 19 Sept. 2003, UTM KL
21. "Application of Reverse Engineering and Rapid Prototyping in Plastic Mould Making" Workshop on Rapid Prototyping & Virtual Manufacturing : Novel Approach in Manufacturing for SMEs', organised by Thailand Advanced Product Support Technologies (APoST) and Thai – Germany Institute, 15 – 16 September 2003, Thai-Germany Institute. Thailand
22. "Trend in Machining Technology", Seminar Teknologi Terkini Dibidang Pemesinan & Pengeluaran , organised by CIAST, Shah Alam Selangor, 21 August 2002
23. "Overview in Rapid Prototyping Technology/Techniques" Seminar Teknologi Terkini Dibidang Pemesinan & Pengeluaran , organised by CIAST, S. Alam Selangor, 21 Aug. 2002
24. "Face Milling of Aerospace Materials (Ti-6Al4V) Using Carbide Tools" Colloquium Fac. of Mech. Engg., UTM, 30 August 2000
25. "Pengendalian dan Penyenggaraan Mesin Larik" anjuran Kem. Pendidikan Pahang untuk Guru Sek. Vokasional dan Teknik, SMVKR, Pahang, 21 – 26 Ogos 1994
26. "Trends in Modern Manufacture: Role of Fac. of Mech. Engg., UTM" Bengkel Produktiviti dan Kualiti untuk Syarikat IKS, anjuran NPC, Johor Bahru, Julai 1993

XI. RESEARCH & PATENT

A. Research at International Level

1. **Eurasian Network for Product Lifecycle Support and Training (EAPSTRA)** – (Grant: European Commission Contract Number ASIA IT7C/ASI b7-301/71548 (3152-094), 2004 to 2006) - Vot 68401, EURO 385,524.00 (RM 1,590,303.00) role : co-researcher
2. **Advanced Product Support Technologies (APOST) – Design, CAD/CAM, Rapid Prototyping and Virtual Manufacturing** (Grant: European Commission Project Contract Number ASI/B7-3 01/97/0126-15, 2001 to 2003) – Vot 68858, EURO 372,516.00 (RM 1,1,627,895.00), role : main researcher
3. **Face Milling of Aerospace Materials (Titanium and Nickel Alloys).** (Grant: Rolls Royce Plc UK – 1996 to 1999) role: main researcher.
4. QJ130000.2510.06H89 MACHINABILITY OF ADVANCED MATERIALS FOR MEDICAL DEVICES AND ENGINEERING APPLICATIONS
5. DEVELOPMENT OF A FRAMEWORK FOR ESTABLISHMENT OF END-OF-LIFE VEHICLE REMANUFACTURING SYSTEM IN MALAYSIA

B. Research at National Level

1. UTM Research University Grant (RUG), "**Machinability of Advanced Materials for Medical Devices and Engineering Applications**", QJ130000.2510.06H89, April 2014 – March 2016, (RM 70,000.00), role: Project Leader
2. UTM Research University Grant (RUG), "**Development of A Framework for Establishment of End-Of-Life Vehicle Remanufacturing System in Malaysia**", QJ130000.2524.06H88, April 2013 – March 2016, (RM 70,000.00), role: Co-Researcher
3. UTM Research University Grant (RUG), "**Development of improved conformal cooling design and fabrication of its prototypes using milling process for rapid heat cycle molding application**", Q.J130000.2524.06H08, April 2014 – March 2015, (RM 50,000.00), role: Co-Researcher
4. UTM Research University Grant (RUG), "**Evaluation of Coolant Strategies in High Speed Machining (HSM) of Advanced Materials**", QJ130000.7142.02H43, April 2011 – March 2013, (RM 150,000.00), role: Project Leader
5. UTM Research University Grant (RUG), "**Study on The Effect of Conformal Cooling and Heating Channel on Cooling Time and The Quality Characteristic of Injection Molding Parts in Rapid**

- Heat Cycle Molding (RHCM)**” Q.J130000.2624.06J51, May 2012 – April 2013, (RM30,000), role: Co-Researcher
6. UTM Research University Grant (RUG), “**Developing Sustainable Binder for Metal Injection Molding using Recycle Materials**” Q.K130000.2624.06J51, May 2012 – April 2013, (RM50,000), role: Co-Researcher
 7. Fundamental Research Grant Scheme (FRGS), “**Characterization of Polyethylene Terephthalate (PET) Waste as Sustainable Binder for Metal Injection Molding**”, FRGS/1/2012/TK01/UTM02/1, April 2012 – March 2014, (RM90,820.00), role: Co-Researcher
 8. UTM Research University Grant (RUG), “**Study on The Effect of Conformal Cooling and Heating Channel on Cooling Time and The Quality Characteristic of Injection Molding Parts in Rapid Heat Cycle Molding (RHCM)**” Q.J130000.2624.06J51, May 2012 – April 2013, (RM30,000), role: Co-Researcher
 9. UTM Research University Grant (RUG), “**Framework for End-of-Life Vehicles Recycling System in Malaysia**” Q.J130000.7124.01J74, April 2011 – March 2012, (RM40,000), role: Co-Researcher
 10. UTM Research University Grant (RUG), “**Machinability Analysis on Machining Bones**”, Q.J130000.2624.06J37, May 2012 – April 2013, (RM 40,000.00), role: Co-Researcher
 11. Fundamental Research Grant Scheme (FRGS), **Development of Sustainable Product Design Indicator for Malaysia Manufacturing Industries**, MOHE/RMC UTM Vot 78640 April 2010 – March 2012, (RM40,000), role: Co-Researcher
 12. Fundamental Research Grant Scheme (FRGS), “**Modeling and Performance Prediction of Diamond Coated Carbide Cutting Tools in Machining Wood-Based Products**”, FRGS/2/10/TK/UTM/01/22, Vot 78682, Sep 2010 – Aug 2012, (RM 48,680.00), role: Project Leader
 13. Fundamental Research Grant Scheme (FRGS),. “**A study on the Effect of Carbon Content of Cobalt Chrome Molybdenum Alloys to Diamond Coating Surface Treatment**”. Vot 78611, Apr 2010 – Mac 2012, (RM44,000.00), role: Co-Researcher
 14. e-Science Fund. “**Design and Fabrication of Specialized High Flexion (HF) Knee Implants Fortified by Nanocrystalline Diamond Coatings**” (Grant Project No: 03-01-06-SF0703), Vote No: 79374, Jul 2009 – Jun 2011, (RM208,200.00), role: Co-Researcher
 15. Science Fund Research Project Cycle 1/2006, “**Performance Evaluation of Advanced Finish Sanding on Wood Surface**” (Grant Project No: 03-01-06-SF0047), Vot 79065 – Dis 2006 – Nov 2008, (RM 234,920.00), role: Project Leader
 16. Science Fund Research Project Cycle 1/2006, “**Design of New Cutting Tool Geometry for High Speed Drilling of Titanium Alloy**” (As a collaborator with UTHM), Vot 5003 – Dis 2006 – Nov 2008, (RM 228,700.00), role: Co-Researcher
 17. Fundamental Research Grant Scheme (FRGS), “**Feasibility Study of Using Vegetable Oil as a Cutting Lubricant Through the Use of Minimum Quantity Lubrication during Machining**”, Vot 78055 – Jan 2007 – Dis 2008, (RM 50,000.00), role: Project Leader
 18. Top Down IRPA Project - Prioritised Research (PR), “**Development of Endmills, Drills and Turning Tools From Ultra Fine Grained Carbides and Oxides for Aerospace and Mold and Die**” (Grant: IRPA Project No: 03-03-03-0068 PR0074/03-01), Vot: 74545 – 2003 to 2006, (RM 1,583,000.00), role: Leader of Sub- Project
 19. Top Down IRPA Project – Prioritised Research (PR) “**Development of Ultra-Thin Coated Precision Tools for Turning and Milling** “ (Grant: IRPA Project No: 03-03-03-0068 PR0074/03-03), Vot: 74546 – 2003 to 2006, (RM 2,942,00.00), role: Co- Researcher
 20. Top Down IRPA Project - Prioritized Research (PR) “**Development of New Cutting Tools for Ultra-Precision Processing of Materials**” (Grant: IRPA Project No: 03-03-03-0068 PR0074/03-03), Vot 74540– Mac 2004 to Mac 2007 – (RM 3,629,560.00), role: Co-Researcher
 21. Top Down IRPA Project - Strategised Research (SR), “**Fabrication of laser crystal for electro-optic application**” (Grant: IRPA Vot: 74530 – 2003 to 2006, RM 2,000,000) role: Co-Researcher
 22. **Performance Evaluation of Carbide Tools on Machining Aerospace Materials - Titanium alloys** (Grant: IRPA Project No: 03-02-06-0086 EA 001, Vot: 74122 – Jan 2003 to 2006, RM 195,940.00) role : Project Leader

23. **Ultra Precision Turning of Symmetrical and Non-Systematical silicon surfaces for laser application** (Grant: IRPA Project No: 74218 Dis 2003 – Nov. 2006, RM 153,200.00) role : Co-Researcher
24. **Determination of the Optimum Cutting Conditions for Coated Carbide and Ceramic Cutting Tools when Turning Hardened Tool Steel** (Grant IRPA Vot 74268 - 2004 to 2006, RM 109,000.00) role: Co-Researcher
25. **Precision Shell Investment Casting of Aluminium Alloy Turbo Charger Impeller** (Grant IRPA Vot 74273 - 2004 to 2006, RM 172,000.00). role: Co-Researcher
26. **Ductile Mode Grinding and Polishing of Aspheric, Toric and Plane Surfaces on Glass and silicon** (Grant IRPA: Vot: 74065 , Jul 2002 to Dis 2005, RM 198,560.00) role: Co-Researcher
27. **Performance Evaluation of New Diamond Tools for Malaysian Precision Industries**, (Grant: IRPA Vot: 72255 – Jan. 2000 to Dis 2002, RM 266,950.00) role: Co-Researcher.
28. **Machinability Database and Performance Evaluation of Advanced Cutting Tools for Malaysian Industries**. (Grant IRPA 72196 – Sept. 1999 to Aug. 2001, RM 286,750.00). role: Co-Researcher.
29. **Generation of Aspheric Surfaces by Ductile Mode Diamond Grinding and Polishing on Glass and Silicon**, (Grant: UPP 71583 – Dec. 1999 to Jun 2001, RM 20,000.00) role: Project Leader.
30. **Study on Truing and Dressing of Grinding Wheels using a CNC Surface Grinder**, (Grant: UPP 61650 Jun 1994 to Aug. 1996), role: Co-Researcher.
31. **Prototype of Formula-M Racing Car**, (Grant: UPP 61857, July 1995 to Sept. 1995); role: Co-Researcher.

C. PATENT/COPYRIGHT

1. Patent Filing in Malaysia through Perbadanan Harta Intelek Malaysia (MyIPO) – “Drill Point Geometry of A Drill Bit”, August 2007, File no: PI 2007 1324.
2. Patent Filing in Malaysia through Perbadanan Harta Intelek Malaysia (MyIPO) – “A System and Method for Measuring Surface Fuzziness”, 21 April 2011, File no: PI 2011700060.
3. Copyright: “Software of Sustainability Indicators for Design and Development Process”, UTM September 2012.
4. Copyright: “ProSET (Product Sustainability Evaluation Tool)”, UTM June 2013..

XII. PUBLICATIONS/EDITOR/REVIEWER

A. Books/Dissertation/Thesis

1. MSc, Dissertation “**Further Contribution to an Interactive Process Planning Systems for Turned Components**” UMIST Manchester, UK, 1991.
2. Phd Thesis berjudul “**Face Milling of Titanium Alloys Using Coated and Uncoated Carbide Tools**”, Coventry University, UK, 2000.
3. “**Rekabentuk dan Pembuatan Bersepadu Komputer**” Translation from English to Bahasa Malaysia, 2000. UTM

B. Keynote Paper

1. **S. Sharif, P. L. Tan and S. Izman**, “*Novel Method for Quantitative Measurement of Machined Wood Surface Fuzziness*”, The 1st International Materials, Industrial and Manufacturing Engineering Conference (MIMEC 2013), Johor Bahru, 4 – 6 December **2013**.
2. **S. Sharif, P. L. Tan**, “*Evaluation of Sanded Wood Surface Roughness with Anatomical Filters*” The 1st International Conference on Advanced Manufacturing (ICAM 2011), TATIUC, Terengganu 23 – 24 May **2011**.

C. Articles/Papers in Journals/Book Chapter

1. **Murad, M.N., Sharif, S., Rahim, E.A., Rival,** "Effect of Drill Point Angle on Surface Integrity When Drilling Titanium Alloy", *Advanced Materials Research*, Vol. 845, (2014), pp 966-970, Scopus
2. **Ndaruhadi, P.Y.M.W., Sharif, S., Noordin, M.Y., Kurniawan, D.,** "Effect of Cutting Parameters on Surface Roughness in Turning of Bone", *Advanced Materials Research*, Vol. 845, (2014), pp 708-712, Scopus
3. **Mamat, T.N.A.R., Saman, M.Z.M., Sharif, S.,** "The Need of End-Of-Life Vehicles Management System in Malaysia", *Advanced Materials Research*, Vol. 845, (2014), pp 505-509, Scopus
4. **Maoinser, M.A., Ahmad, F., Sharif, S.,** "Effects of cutting parameters on hole integrity when drilling GFRP and HFRP composites", *Advanced Materials Research*, Vol. 845, (2014), pp 960-965, Scopus
5. **Sultan, A.Z., Sharif, S., Kurniawan, D.,** "Examining the Effect of Various Vegetable Oil-Based Cutting Fluids on Surface Integrity in Drilling Steel - A Review", *Advanced Materials Research*, Vol. 845, (2014), pp 809 – 813, Scopus
6. **Ndaruhadi, P.Y.M.W., Sharif, S., Kurniawan, D.,** "Experiment Investigation of Hole Accuracy and Surface Roughness in Femur Bone Drilling using Different Parameters", *Advanced Materials Research*, Vol. 845, (2014), pp 720-723, Scopus
7. **Keong, W.T., Ahmad, F., Sharif, S., Moinsner, M.A.,** "Effects of Drilling Generated Heat on Damage Factor in GFRP", *Key Engineering Materials*, Vol. 594-595, (2014), pp 661-665, Scopus
8. **Shayfull, Z., Sharif, S., Mohd Zain, A., Mohd Saad, R., Fairuz, M.A.,** "Warpage Analysis with Straight Drilled and Conformal Cooling Channels on Front Panel Housing by using Taguchi Method", *Key Engineering Materials*, Vol. 594-595, (2014), pp 593-603, Scopus
9. **Marwah, O.M.F., Sharif, S., Zainol, M.A., Ibrahim, M., Mohamad, E.J.,** "3D Printer Patterns Evaluation for Direct Investment Casting", *Applied Mechanics and Materials*, Vol. 465-466, (2014), pp. 1400-1403, Scopus
10. **Sharif, S., Safari, H., Izman, S., Kurniawan, D.,** "Effect of High Speed Dry End Milling on Surface Roughness and Cutting Forces of Ti-6Al-4V ELI", *Applied Mechanics and Materials*, Vol. 493, (2014), pp. 546-551, Scopus
11. **Shayfull, Z., Sharif, S., Zain, A.M., Ghazali, M.F., Saad, R.M.** "Potential of Conformal Cooling Channels in Rapid Heat Cycle Molding: A Review", *Advances in Polymer Technology*, Vol. 33, Issue 1, (2014), Article number 21381, IF= 1.096
12. **Safari, H., Sharif, S., Izman, S., Jafari, H., Kurniawan, D.** "Cutting Force and Surface Roughness Characterization in Cryogenic High-Speed End Milling of Ti-6Al-4V ELI", *Materials and Manufacturing Processes*, Vol.29, Issue 3, (2014), pp 350-356, IF = 1.297
13. **M.N. Hafsa, M. Ibrahim, S. Sharif,** "Investment Casting using Multi-jet Modelling Patterns: The Thermogravimetric Analysis of Visijet® SR200 UV Curable Acrylate Plastic", *IOP Conference Series: Materials Science and Engineering*, Vol.50, Issue 1, (2013), Article number 012059, Scopus
14. **M.N. Hafsa, M. Ibrahim, S. Sharif, M.F.M. Marwah and M. A. Zainol,** "Evaluation of Different Internal Structure and Build Orientation for Multijet Modleing Process", *Applied Mechanics and Materials*, Vol. 315, (2013), pp. 587-591, Scopus
15. **Shayfull, Z., Sharif, S., Zain, A.M., Saad, R.M., Fairuz, M.A.,** "Milled Groove Square Shape Conformal Cooling Channels in Injection Molding Process", *Materials and Manufacturing Processes* 28 (8), (2013), pp. 884-891, IF = 1.297
16. **Marwah, O.M.F., Sharif, S., Ibrahim, M., Idris, M.H.,** "Collapsibility Studies of MJM Acrylate Patterns for Investment Casting", *Applied Mechanics and Materials*, 330, (2013), pp. 839-842, Scopus
17. **Hemdi, A.R., Saman, M.Z.M., Sharif, S.,** "Sustainability Evaluation using Fuzzy Inference Methods", *International Journal of Sustainable Energy* 32 (3), (2013), pp. 169-185, Scopus

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42. Review article for Jurnal Teknologi, UTM with title “Kajian Permukaan Bahan Keluli Pekakas Setelah Pengisaran Hujung Menggunakan Perkakas Karbida Bersalut (JTA/2003/15), July 2003
43. Review article for Jurnal Teknologi, UTM with title “Dry Mixing of Feedstock for Injection Moulding of 316L Stainless Steel Powder”, July 2003
44. Review article for Jurnal Teknologi, UTM with title “SEM Observation on Wear Mechanism of TiN-Coated HSS Twist Drills”, July 2003
45. Review article for Jurnal Teknologi, UTM with title “Establishing Surface Form of Foam Materials Using Coordinate Measuring Machine”, April 2003
46. Review article for Jurnal Mekanikal, UTM with title “Fabrikasi dan Prestasi Pemesinan Seramik Alumium-Zirkonia”, May 2003
47. Review article for Jurnal Mekanikal, UTM with title “Design Optimization of Robot Chasis for Prototyping Process” Mac 2003
48. Review article for Jurnal Teknologi, UTM with title “Kajian Terhadap Penghasilan Radas Makmal yang Berbentuk Unik dan Rumit Melalui Proses Pencontoh Sulungan Pantas” , 18 Okt. 2002
49. Review article for Jurnal Teknologi, UTM with title “Efficient Reference Pulse CNC Interpolar for 2D Parametric Curve”, Feb. 2002.
50. Review article for Journal of Industrial Technology, SIRIM with title “Cutting Conditions for Green Machining of Aerospace Material Using Alloyed Uncoated Carbide”, Sept. 2001
51. Review article for Journal Inst. of Materials M’sia (JIMM), with title “Tool Life and Surface Evaluations in High Speed Machining Tool Steel with Multi Layer Ceramic CVD-Coated Carbide Tool”, July 2001.

52. Review article for Jurnal Teknologi, UTM with title "Work Improvement At The Metal Finish Line of Car Manufacturing Engineering ", May 2001.
53. Review article for Jurnal Teknologi. UTM with title "Design to injection Molding for Plastic Product: A Case Study", May 2000.
54. Review original book for the UTM Publication Day Award with title "Proses Pembuatan – Jld. 1", 2000 for Penerbit UTM
55. Review article for Ensiklopedia Sains dan Teknologi with title "Kimpalan Rintangan", Feb. 1996
56. Review article for Ensiklopedia Sains dan Teknologi with title "Penuangan Pelaburan", Feb. 1996
57. Review article for Ensiklopedia Sains dan Teknologi with title "Angkup", Aug. 1995

XIII. SUPERVISOR FOR POSTGRADUATE/UNDERGRADUATE

A). PhD - 22 Students (10 completed)

1. **Hainol Abu Bakar Zaman** (2013/14-1)
End Milling of Cobalt Chrome Steel for Medical Devices
Role: Co-Supervisor Status : **In Progress**
2. **Habiballah Safari** (2010/2011)
High Speed Milling of Aerospace Material Using Carbide Tools
Role: Main-Supervisor Status : **Graduated**
3. **Mohd Fahrul Hassan** (2010/2011)
Development of Indicator to Life Cycle Assessment for Environmental Impact of Manufacturing in Malaysia Manufacturing Industries
Role: Co-Supervisor Status : **Graduated**
4. **Rival** (2005/06)
Drilling of Inconel 718 using Coated and Uncoated Carbide Tools
Role: Main Supervisor Status : **Graduated**
5. **Abdul Rahman Hemdi** (2008/09)
Sustainable Product Design and Manufacture in Malaysian Industry
Role: Co-Supervisor Status : **Graduated**
6. **Ali Akhavan Farid** (2008/09)
High Speed Drilling of Aluminium Silicon Alloy
Role: Main Supervisor Status : **Graduated**
7. **Tan Poh Lai** (2004/05)
Surface Integrity Studies of Wood Surfaces During Sanding and Polishing Process
Role: Main Supervisor Status : **Graduated**
8. **Azlan Mohd Zain** (2007/08)
Computational Integration System in Estimating Optimal Solutions of Machining Parameters
Role: Co-Supervisor Status : **Graduated**
9. **Amrifan Mohruni Saladin** (2003/04)
End Milling of Aerospace Material – Titanium Alloy Ti-6Al-4V Using Coated and Uncoated Carbide Tools
Role: Main Supervisor Status : **Graduated**
10. **Izman Sudin** (1999/00)
Grinding and Polishing of Glass and Silicon
Role: Co-Supervisor Status : **Graduated**

11. **Noordin Mohd. Yusof** (1999/00)
Hard Turning of Automotive Steel
Role: Co-Supervisor Status : **Graduated**
12. **Mohammad Fadhil Mat Nor** (2011/2012-2)
Development of EDM Electrode Using MIM Technique
Role: Main-Supervisor Status : **In Progress**
13. **Paulus Yustinus Maria Wibowo Ndaruhadi** (2011/2012-2)
Machinability Study on the Bone Drilling Using Carbide Tools
Role: Main-Supervisor Status : **In Progress**
14. **Mohd Tanwyn Mohd Khusairi** (2011/2012-1)
Fabrication and Evaluation on Rapid Tooling of Aluminium-Epoxy for Injection Moulding.
Role: Main-Supervisor Status : **In Progress**
15. **Ahmad Zubair Sultan** (2011/2012-1)
High Speed Drilling of Austenitic Stainless Steel 316L Using Carbide Tools
Role: Main-Supervisor Status : **In Progress**
16. **Zarak Shaifuddin Zamrah** (2010/2011-2)
Enhancing Value Engineering Philosophy Through Computer-Based Integration Of TRIZ Structured Innovation
Role: Main-Supervisor Status : **In Progress**
17. **Shayfull Zameree Abd. Rahman** (2010/11-2)
Evaluation of Rapid Heating and Cooling of Mould Cavities in Injection Moulding.
Role: Main Supervisor Status : **In Progress**
18. **Muhamad Nasir Murad** (2010/11-2)
High Speed Machining of Aerospace Materials
Role: Main Supervisor Status : **In Progress**
19. **Mohd Azuwan Maoinser** (2009/10) – Register with Universiti Teknologi Petronas (UTP)
Stufy on the Drilling Behaviour of Fiber Composites and Hybrid Composites
Role: Co-Supervisor Status : **In Progress**
20. **Omar Mohd Faizan Marwan** (2009/10)
Evaluation of Rapid Prototyping Patterns for Investment Casting Process
Role: Main Supervisor Status : **In Progress**
21. **Mukhtar Malik** (2009/10 – Register with UMP)
High Speed Drilling of Martensitic Stainless Steel
Role: Co-Supervisor Status : **In Progress**
22. **Norazmein Abdul Rahman** (2007/08)
End Milling of Medium Fibre Board using CVD Diamond Coated Tool
Role: Main Supervisor Status : **In progress**

B). M. Eng by Research and Coursework

Supervised 60 students with 55 students had completed

C). Undergraduate Student Project

More than 70 undergraduate student projects have been supervised since 1993 to date

XIV. EXAMINER FOR POSTGRADUATE

A. PhD – Thesis (12 Candidates)

1. **Mohd Amri Sulaiman (UKM)** – April 2014
Pemesinan Laju Tinggi Aloi Titanium Ti-6Al-4V ELI Dalam Keadaan Pelinciran Kuantiti Minimum
Role: External Examiner
2. **Mohammed Baba Ndaliman (UIAM)** – Oct. 2013
Surface Modification of Titanium Alloy (Ti-6Al-4V) Using Powder Metallurgy Compacted Electrode During Electrical Discharge
Role: External Examiner
3. **Khuram Altar (UIAM)** – Oct. 2011
Novel Techniques for Reducing Cooling Time in Polymer Injection Moulds Using Rapid Tooling Technologies
Role: External Examiner
4. **Gusri Akhyar Ibrahim (UKM)** – May 2010
Pelarikan Aloi Titanium Ti-6Al-4V ELI Menggunakan Perkakas Karbida Dalam Keadaan Kering
Role: External Examiner
5. **Muhamammad Anayet Ullah Patwari (UIAM)** - Jan 2010
Investigation of the Causes of Chatter in Machine Tools and Development of a New Chatter Model
Role: External Examiner
6. **Kumaran a/l Kadirgama (UNITEN)** – July 2009
Mechanics Behaviors of Advanced Cutting Tool Wheel Machining Hastelloy C-22HS
Role: External Examiner
7. **Thet Thet Mon (UTM)** - 2007
A Study of Stagnant Zone Formation on Diamond Tools using Finite Element Method
Role: Internal Examiner
8. **Ir. Razali Bin Abidin (UKM)** – Sept 2006
Rekabentuk dan Pemesinan Laras Senjata Sniper 5.56 mm
Role: External Examiner
9. **Muhammad Sobron Yamin Lubis (USM)** – Dec 2005
Penggunaan Komposit Seramik Sebagai Bahan Mata Alat Potong
Role: External Examiner
10. **Mubarak Ali (UTM)** - (Okt 2005- Seminar)
The Deposition Characterisation and Application of Hard Coatings in Cutting Tools Industry
Role: Internal Examiner
11. **Astuty Binti Amrin (UTM)** – April 2005
High-Temperature Oxidation of Titanium Aluminides
Role: Internal Examiner
12. **Mohd Hasbullah Bin Idris (UTM)** – Jan 2002
Processing and Evaluation of an Investment Cast Magnesium-Base Alloy
Role: Internal Examiner

B. M. Eng by Research and Coursework – (41 Candidates)

1. **Waris Nugroho (UTeM)** – June 2012 & Feb 2014
Design of Optimum Cutting Parameters for Internal Surface Roughness
Role: External Examiner
2. **Abolfazl Golshan (UPM)** – August 2013

- Modeling and Optimization of Micro Milling Parameters of Titanium Alloy using Computational Intelligence
Role: External Examiner
3. **Hanizam Bin Hashim (UTeM)** – May 2013
Effect of In Situ DC and ulse Substrate Bias Cleaning Process on Titanium Nitride Coating Adhesion During PVD Process.
Role: External Examiner
 4. **Mohamad Maaroff Bin Bahurdin (UPM)** – May 2012
Optimization of Milling Machining Parameters fro Maximizing Tool Lifespan Using Taguchi Method
Role: External Examiner
 5. **Mohd Nor Hakim Bin Hassan (USM)** – June 2010
A Study on the Development of a Ceramic Cutting Tool (ZTA/ZTA-MgO) and Its Machining Performance in End Milling
Role: External Examiner
 6. **Alam Shah (UIAM)** – Mac 2009
Modeling of Surface Roughness when High Speed End Milling of Titanium Alloy Using RSM and Generic Algorithm
Role: External Examiner
 7. **Reyad Mehfuz (UIAM)** – May 2008
Micro Electro Discharge Milling for Microfabrication
Role: External Examiner
 8. **Vasan Mariappan (UPM)** – Nov. 2007
Development of An Optical Character Recognition Function System for IC Classification
Role: External Examiner
 9. **Akashi Suri (UPM)** – Jan. 2007
OHSAS 18001 Gap Analysis Expert System for Manufacturing Industries
Role: External Examiner
 10. **Kok Poh Yee (IIUM)** – April 2006
Preheating, Cryogenic Cooling and Combined Approach to Improve Machinability of Stainless Steel
Role: External Examiner
 11. **Ir Nik Zuki Nik Mohamed (UPM)** – Jan 2006
Strategic Methods to Reduce Development Time for New Model in Automotive Industry
Role: External Examiner
 12. **Ahmad Humaizi Hilmi (UTM)** – Dec. 2005
Design and Development of Paintball Marker Using Boothroyd Dewhurts DFMA Methodology
Role: Internal Examiner
 13. **Ahmad Syayuthi (UTM)** – Dec. 2005
Fabrikasi Peralatan Ujian Retakan Kakisan Tegasan dan Perincian Specimen Terkakis Tegasan
Role : Internal Examiner
 14. **Halim Shah Hamzah (UTM)** – Dec. 2005
Improving Operation Management Practices at Car Body Assembly Shop
Role : Internal Examiner
 15. **Ho Chee Kean (UTM)** – Dec. 2005
Model Pengurusan Penyelenggaraan Untuk Artileri Pertahan Udara
Role : Internal Examiner
 16. **Shahid Abdul Rahman (UTM)** – Dec. 2005
Pengurusan Penyelenggaraan Kenderaan Tentera Darat

Role : Internal Examiner

17. **Tan Meng Loon (UTM)** – Dec. 2005
Rekabentuk dan Pembangunan Sistem Nyahcemar NBK ATM
Role : Internal Examiner
18. **Norazlinda Mohd Darby (UTM)** – Dec. 2005
A Software Dealing with Non-Normal Data in SPC Application
Role : Internal Examiner
19. **Ruzaidi Zamri (UTM)** – Dec. 2005
Database for Computer Aided Production Management (CAPM)
Role: Internal Examiner
20. **Goay Lay Nee (UPM)** – July 2005
Development of Cutting Tools and Machining Parameter Selection for Milling Processes
Role: External Examiner
21. **Tan Yu Chai (UTM)** – May 2005
Performance Evaluation of Coated Carbide Cutting Tools when Turning Hardened Tool Steel
Role: Internal Examiner
22. **Afandi Mohd Zainal (UTM)** – May 2005
Performance Evaluation of Ceramic Cutting Tools when Turning Hardened Tool Steel
Role: Internal Examiner
23. **Shayfull Zamree Abdul Rahim (UTM)** – May 2005
Material Flow Analysis in 2 and 3 Plate Injection Mould
Role: Internal Examiner
24. **Mustafa Bakri (UTM)** – May. 2005
Ultrasonic Machining of Ti-Al Intermetallic Alloy Using Taguch Approach
Role : Internal Examiner
25. **Abdul Shukur Ramsir (UTM)** – May 2005
Electrical Discharge Machining of Ti-AL Intermetallic Alloy using Taguchi Approach
Role: Internal Examiner
26. **Mohd Haszley Abu Bakar (UKM)** – Sept 2004
Fabrikasi dan Prestasi Pemesinan Sisipan Perkakas Alumina Zirkonia
Role : External Examiner
27. **Ling Tuong Thai (UTM)** - Okt 2003
Design & Production of Thin Wall Ductile Iron Castings for Automotive Applications
Role: Internal Examiner
28. **Santhirakumar a/l Balakrishna (UTM)** - 2003
Influence of Solid Lubricants in Precision Machining of Silicon & Glass
Role: Internal Examiner
29. **Azwan Iskandar Azmi (UTM)** – Sep 2003
Implementation of Step Data Exchange Format for Process Planning
Role: Internal Examiner
30. **Nik Faizu Kundor (UKM)** – April 2003
Kajian Keutuhan Permukaan Keluli Perkakas AISI D2 Dalam PengisarHujung
Role: External Examiner
31. **Amin Shah Omar (UTM)** - 2002
Environmentally Concious Design for Electrical Appliances

Role: *Internal Examiner*

32. **Badrul Aisham Md Zain (UTM)** - 2002
DFA Evaluation Method of Hitachi AEM for Electrical Appliances
Role: Internal Examiner
33. **Nguyen Van Tri (UTM)** - Okt 2001
Ultrasonic Machining of Zirconia Using Classical DOE Approach
Role : Internal Examiner
34. **Md Saidin Wahab (UTM)** - Okt 2001
Electrical Discharge Machining of Aluminium Alloy Using Classical DOE Approach
Role: Internal Examiner
35. **Md Razin Jaafar (UTM)** – Mac 2001
DFA Evaluation Method of Lucas for Electrical Appliances
Role : Internal Examiner
36. **Raden Dadan Ramdan (UTM)** – Okt 2001
Cubic Boron Nitride Coated on Cutting Tool Steel
Role : Internal Examiner
37. **Norizah Bt Redzuan (UTM)** - July 2001
Microdrilling of Printed Circuit Boards
Role: Internal Examiner
38. **Syed Ahmad Helmi Syed Hassan (UTM)** – Ogos 2001
Application of FMEA for failure prevention – A Case Study
Role : Internal Examiner
39. **Syaimak Abd Shukor (UTM)** – Jun 2001
Assessment of CAD to RP Translation –Unigraphics to Quickslice
Role: Internal Examiner
40. **Chew Kok Cheong (UTM)** – July 2000
Development of Cast Pariculate Al-Based Metal Matrix Composites for Automotive Application
Role: Internal Examiner
41. **Muhammad Ikhwan Jambak (UTM)** – July 2000
Information Architectures for Computer Integrated Manufacturing
Role: Internal Examiner

XV. HONOURS AN AWARDS

1. Recipient of the Certificate of Invention Academics & Education Order of Merit for the 2013 World Inventor Award Festival (WIAF 2013), organized by Korea Invention News, “New Design of Milled Grooved Square Shape (MGSS) Conformal Cooling Channels in Injection Molding Process”, Seoul, 14 Dec. 2013
2. Recipient of the Certificate of Manufacturing Order of Merit for the 2013 World Inventor Award Festival (WIAF 2013), organized by Korea Invention News, “New Design of Milled Grooved Square Shape (MGSS) Conformal Cooling Channels in Injection Molding Process”, Seoul, 14 Dec. 2013
3. Recipient of the Gold Medal for the 7th International Warsaw Invention Show (IWIS) 2013, “New Design of Milled Grooved Square Shape (MGSS) Conformal Cooling Channels in Injection Molding Process”, Warsaw, Poland, 8 – 10 Oct. 2013
4. Recipient of the Special Award from the Chinese Innovation & Invention Society (CIIS), for the “New Design of Milled Grooved Square Shape (MGSS) Conformal Cooling Channels in Injection Molding

- Process”, presented at the 7th International Warsaw Invention Show (IWIS) 2013, Warsaw, Poland, 8 – 10 Oct. 2013
5. Recipient of the Special Award from the Korea Innovation News for the recognition of novel idea of “New Design of Milled Grooved Square Shape (MGSS) Conformal Cooling Channels in Injection Molding Process” presented at the 7th International Warsaw Invention Show (IWIS) 2013, Warsaw, Poland, 8 – 10 Oct. 2013
 6. Recipient of the Bronze Medal for the Industrial Art and Technology Exhibition (INATEX) 2013 at UTM, for the product “Proset: Software Of Sustainability Indicator For Product Configuration Design”, 2 – 4 Oct. 2013
 7. Certificate of Appreciation for the Top Ten Highest Cumulative Impact Factor (CIF) from Materials and Manufacturing Research Alliance 2011 KAI, UTM .
 8. Sijil Penghargaan Sebagai Panel Penilai Anugerah Kualiti Akademik Tahun 2010, UTM, Citra Karisma Majlis Anugerah Kecermelangan & Penghargaan UTM 2011.
 9. Recipient of the UTM Excellent Service Award, Head of External Programmes, UTMSPACE for Year 2009
 10. Recipient of the Faculty of Mechanical, UTM Excellent Service Award for Group Research Category, Year 2007
 11. Recipient of the UTM Excellent Service Award, Year 2005
 12. Recipient of the UTM Publication Award, Year 2005
Category: Best National Journal Paper
 13. Recipient of the Bronze Medal for the 33rd Int. Exhibition of Inventions New Techniques and Products , Geneva, “Special Drill for Drilling Aerospace Material”, 6 – 10 April 2005
 14. Recipient of the Bronze Medal for the Industrial Art and Technology Exhibition (INATEX) 2005 at UTM, “New Drill for Drilling Aerospace Materials” , 10 – 12 March 2005
 15. Penghargaan Saintis Cemerlang 2005 dari Kementerian Pengajian Tinggi Malaysia kerana memenangi pingat Gangsa di Invention Exhibition of New Invention, Techniques And Products 2005, Geneva “Special for Drilling Aerospace Materials”
 16. Recipient of the UTM Excellent Service Award, Year 2001
 17. Recipient of the UTM Publication Award, Year 2001
Category: Best International Journal Paper
 18. Recipient of the SLAB and UTM scholarship for PhD in Manufacturing (Machining), Coventry University, UK, 1996 – Dec. 1999
 19. Recipient of the SLAB and UTM scholarship for Master of Science (Advance in Manufacturing Technology), UMIST, Manchester, UK, 1990 – 1991
 20. Recipient of the Colombo Plan Scholarship for Technical Training on Manufacturing Engineering and Management, Institute of Foremen Training, Kansbahal, India, June 1990 – Aug. 1990
 21. Recipient of the Association of Overseas Technical Scholarship (AOTS) for Training Course in Inspection and
 22. Quality Control of CTV Parts (AOTS) at Hitachi Ltd. Yokohama, Japan, June 1987 – Oct. 1987

XVI. MEMBER OF ASSOCIATION/PROFESSIONAL BODY

- 1 Member of Malaysian Society of Engineering Technology (mSET)
- 2 Graduate Member Board of Engineer Malaysia
- 3 Member of Persatuan Alumni AOTS Malaysia (PAAM)
- 4 Persatuan Alumni UTM
- 5 Ahli PIBG Sekolah Islam Hidayah