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Head of Research and Innovation (R&I)

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PERSONAL PARTICULAR

DOB	: 30 May 1977	Religion	: Islam
Nationality	: Malaysian	Gender	: Male
Race	: Malay	Marital Status	: Married

CURRENT ROLE

As a senior lecturer in UniKL-MITEC, main responsibilities and accountabilities are to play a vital role in nurturing, teaching and educating the future technologist and engineer (i.e. students), active in research and development, continuously provide service to the community and offer consultancy to the external/internal organization. Currently holding position as Head of Research and Innovation and previously held various management positions such as Head of Section Quality Engineering.

Main interest is related to the quality improvement methodology such as Lean and Six Sigma, as well as any tools and techniques that related to the effort of improvement activities. Has granted several research grants from the internal and external scheme. Subjects matter expert amongst others are Innovative and Creative Circles (ICC), Lean Six Sigma (Trained by Motorola University and Certified Master Lean Six Sigma Black Belt from UniKL MITEC), Lean Healthcare (Recognized by Ministry of Health Malaysia as Lean Champion), Quality Tools and Improvement Method and, Statistical Quality Control / Statistical Process Control. Vast experiences in conducting short courses, training and consultation for various industries (manufacturing, services, and oil & gas) such as Ministry of Health (MoH) Malaysia, Ministry of Housing and Local Government Malaysia, Panasonic AVC Networks Johor, PSB Decoration Sdn Bhd, Faber Group Berhad and Dimension Bid Sdn Bhd.

WORKING EXPERIENCES

20 years combined working experiences in manufacturing industry (US and Japan-based company), in the service sector and in an academic environment. The scope of working experiences are including the quality improvement activities, project management, new product introduction (NPI) from design concept to product/program realization, production assembly and plant maintenance, new bachelor and master program development. Proven as an excellent project leader with excellent management skills, strong technical knowledge in production assembly/manufacturing and good analytical skills in manufacturing, service and academic environment.

Recognize as an effective and motivational team player with a good attitude and consistent track record in delivering bottom-line results for each project undertaking. Proven as a result driven person in improving customer satisfaction and demonstrating an excellent interpersonal and communications skill across all levels of the group in the organization. Several awards and accomplishments amongst other are;

1. Gold Medal in Mini QCC Convention from Malaysian Productivity Cooperation (MPC), 2002.
2. Gold Medal in National ICC Convention from Malaysian Productivity Cooperation (MPC), 2004.
3. Award from Hewlett Packard Singapore for outstanding contribution in manufacturing role to the success of new printer mechanism namely Akita Thing NPI program. This product is newly to HP design in order to compete in printer technology industry. June 22, 2006
4. Award from Hewlett Packard Malaysia Sdn Bhd for the contribution to lead the effort to enable Garibaldi lines to ramp up from 15K/month to 240K/month. This was challenging because the Contract Manufacturer never had the experience to build with such high volume and it was in the midst of factory transfer from Singapore to Johor Bahru. April 22, 2007
5. Award from Hewlett Packard Singapore for the excellent contribution in driving down the Operating Supply cost for K2 and Everest from US\$2 per unit printer to the US \$1.4 per unit printer. Cost saving over US\$2 billion in 2008. June 19, 2008
6. Anugerah Pekerja Cemerlang Peringkat UniKL MITEC, 2011
7. Penghargaan Atas Penglibatan Dan Sumbangan Kepada Inisiatif Lean Healthcare Dalam Program Transformasi Nasional. Dato' Sri Idris Jala, CEO PEMANDU Associates, 29th May 17
8. ICON Award 2017 from Universiti Kuala Lumpur.
9. Won Gold Medal in Malaysia Technology Expo 2019 (MTE 2019)
10. International Award of Merit, Republic of Croatia, MTE 2019
11. Gold Medal, International Research and Innovation Exhibition (IRCIE) 2019
12. The Most Outstanding Innovation Award, International Research Conference and Innovation Exhibition (IRCIE) 2019

EMPLOYMENT HISTORY

University Kuala Lumpur, Malaysian Institute of Industrial Technology Aug 2009 - Present

Position Held

- Head of Research and Innovation Department (HoRI) 2018 - Present
- Senior Lecturer (Quality Engineering, UniKL MITEC) 2014 - Present
- UniKL MITEC ETAC Coordinator 2018 - 2018
- Oil and Gas Programme Coordinator 2017 - 2018
- Lecturer (Quality Engineering), UniKL MITEC 2009 - 2014
- Head, Research and Innovation Department 2013 - 2014
- Instrumentation and Control Engineering Project Lead, UniKL MITEC 2011 - 2012
- Head of Section (Quality Engineering), UniKL MITEC 2010 - 2013
- MITEC R&D Coordinator, UniKL MITEC 2010 - 2011

Hewlett-Packard (M) Technology Sdn Bhd Feb 2006 - June 2009

Responsibilities

Overall roles and responsible (R&R) is to manage the operation at Contract Manufacturers (CM) such as Flextronics and Venture, in order to meet the organization's objectives. The expectation is to play critical roles as a point of integration among World Wide R&D, Manufacturing and Outsourcing Partners. Lead in the management of cross-functional teams between HP and Contract Manufacturers to manage and meet the objectives of total customer experience in term of quality, delivery and cost of HP's products from Earlier (NPI) stage until End of Life (EOL) stage. Obtain several awards and rewards for outstanding performance as stated above.

Accomplishment

- Outstanding contribution in manufacturing role, to the success of new printer mechanism namely Akita Thing NPI program. This product is newly to HP design in order to compete in printer technology industry. June 22, 2006
- Lead the effort to enable Garibaldi lines ramp up from 15K/month to 240K/month. This was challenging because the Contract Manufacturer never had experience to build with such high volume and it was in the midst of factory transfer from Singapore to Johor Bahru. April 22, 2007
- Excellent contribution in driving down the Operating Supply cost for K2 and Everest from US\$2 per unit printer to US \$1.4 per unit printer. June 19, 2008
- Successful in planning, managing and passing the line qualification as per HP's standard requirement before proceed to Mass Production for 2 major AIO products: K2 (FY08/FY09), Everest (FY08/FY09).
- Met 100% on-time HP product shipment plan with capacity of 110,000 unit/month by maintaining contract manufacturer production yield at 97% and CSA below than 3000 dppm on each project.
- Involved and succeed to transfer in total of 175 plastic parts tooling projects from Singapore to local supplier as part of the cost reduction activities. With this activities total cost reduction of USD6.80 were captured.
- Successful in reducing cost in production tools, jigs and fixtures expenses approximate of USD330,000 yearly by outsourcing, localizing, and evaluating local vendor for Typhoon's project.

Brother Industries Technology (M) Sdn Bhd

Feb 2000 - Feb 2006

Responsibilities

Overall roles and responsible (R&R) is directing all engineering activities in the ink plant with major emphasis on Quality, Cost, and Delivery. Required to manage new product introduction (NPI) which is Print Head for Ink Jet Printer, from design concept to product/program realization.

Working History

- General-Feb 00 to Feb 06
 - To produce print head for ink jet printer fax machine from Piezoelectricity Technology with clean room working experiences, class 10,000 0.5 micron particle/ft³.
- Maintenance section-Feb 00 to Jun 00
 - Set up new machine and troubleshoot the machine problem.
 - Hands-on in Pneumatics System Machine and knowledge in basic PLC.
 - Hands-on in 2 axis (Sony robot and IAI robot) and 6 axis robot (Denso robot).
 - Responsible to improve machine down time and increase the machine capability.
- Quality section (in process group and machine group)-Jun 00 to Oct 01
 - Responsible in coordinating the analysis group and return part inspection.
 - Responsible to improve the production yield rate and customer return part
 - Conduct research and investigation on defective part.
- Lead of Quality section and Maintenance-Oct 01 to Dec 04
 - Responsible for directing all engineering activities in the ink plant with major emphasis on Quality, Cost, Delivery and Safety.
 - To present department weekly report in Staff meeting and Division Head meeting.
- Directly support manager to lead ink production plant for 4 section-Dec 04 to Feb 06
 - Ink Cartridge production
 - Ink Head production
 - Quality section (Ink Cartridge and Ink Head)
 - Engineering section (Ink Cartridge and Ink Head)

- New Product Introduction from Japan to Malaysia
 - 17th June 2001 until 1st July 2001: New Product Introduction for a new design of print head (BY4 Model) and new process infrastructure (layout, equipment, etc). Responsible to transfer the knowledge, technology, and requirement to Brother Malaysia.
 - 2nd December 2001 until 16th December 2001: Print Head new technology transfer from Japan to Malaysia that was introduced as pioneer technology to market in 2001. Responsible to transfer the knowledge, technology, and requirement to Brother Malaysia. Require deep understanding on the relationship between process control and new design specification.

Accomplishment

- Gold Medal in Mini QCC and ICC Convention from National Productivity Cooperation (MPC). 2002 (Southern Region, Johor)
- Gold Medal in Mini QCC and ICC Convention from National Productivity Cooperation (MPC). 2003 (Southern Region, Melaka)
- Gold Medal in Mini QCC and ICC Convention from National Productivity Cooperation (MPC). 2004 (Southern Region, Melaka)
- Gold Medal in National ICC Convention from Malaysian Productivity Cooperation (MPC). 2004. (National, Kuala Lumpur)
- ICC/QCC group leader 2000, 2001, 2002, 2003, 2004

EDUCATIONAL BACKGROUND

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| 1. Doctor of Philosophy (Manufacturing)
Universiti Kuala Lumpur (UniKL),
Malaysia Italy Design Institute (MIDI) | February 2019 |
| 2. Master of Management (Technology)
Universiti Teknologi Malaysia (UTM) | June 2008 |
| 3. Bachelor of Engineering (Chemical) - Hons
Universiti Teknologi Malaysia (UTM) | April 2000 |

PROFESSIONAL INVOLVEMENT

Professional Training and Consultancy Conducted

Total amount = RM 1,838,127.69

No of training/consultation conducted = 40

1. Trainer and Consultant for “Gemba Kaizen Coaching Program”, PSB Decoration Sdn Bhd, Aug 2012. (Value: RM 10,000.00)
2. Trainer for “ICC Teambuilding” at UniKL MITEC, 2012 (Value: NIL)
3. Trainer for “ICC Teambuilding”, Panasonic AVC Networks Johor, 2012. (Value: RM 5,000.00)
4. Trainer and Consultant for Lean Office Management (LOM) Training for UniKL (Headquarter, MICET, MIAT, MITEC), Jan 2013 - Mar 2013. (Value: RM 5,400.00)
5. Trainer for Root Cause Analysis (RCA) Training at Dimension Bid Sdn Bhd (Oil & Gas), 28-29 Sept 2013. (Value: RM 6,800.00)
6. Trainer and Consultant - Public Service Delivery Transformation (PSDT), Lean Healthcare - “Reducing Waiting Time at Orthopedic Clinic, Hospital Sultan Ismail (HSI), Johor Bahru”, Sept 2013-Mar 2014. Collaboration with MoH and PEMANDU. (Value: RM 106,957.00)
7. Trainer and Consultant - Public Service Delivery Transformation (PSDT), Lean Healthcare - “Reducing Cancer Treatment Waiting Time, Hospital Sultan Ismail (HSI), Johor Bahru”, Sept 2013-Mar 2014. Collaboration with MoH and PEMANDU. (Value: Same as no 6)
8. Trainer and Consultant - Public Service Delivery Transformation (PSDT), Public Facilities Improvement (PFI) - “Improve Public Toilet at Pantai Port Dickson”, Feb 2014-Aug 2014. Collaboration with KPKT, MPPD, and PEMANDU. (Value: RM 163,443.00)

9. Trainer and Consultant - Public Service Delivery Transformation (PSDT), Lean Healthcare - "Reducing Waiting Time at Emergency Department, Hospital Tengku Ampuan Rahimah (HTAR), Klang", May 2014-Oct 2014. Collaboration with MoH and PEMANDU. (Value: RM 185,994.90)
10. Trainer and Consultant - Public Service Delivery Transformation (PSDT), Lean Healthcare - "Improve Medical Ward Congestion - Reduce BOR, Hospital Tengku Ampuan Rahimah (HTAR), Klang", May 2014-Oct 2014. Collaboration with MoH and PEMANDU. (Value: Same grant in no 9)
11. Facilitator for Lean Healthcare Workshop, "Development of Guidelines for Implementation of Lean Healthcare Initiatives, Nationwide", July 2014. (Value: RM 4,000.00)
12. Trainer and Consultant - Public Service Delivery Transformation (PSDT), Lean Healthcare - "Improve Patient Waiting Time at Ophthalmology Specialist Clinic, Hospital Sultanah Aminah (HSAJB), Johor Bahru", Nov 2014-Apr 2015. Collaboration with MoH and PEMANDU. (Value: RM 130,000.00)
13. Trainer and Consultant - Public Service Delivery Transformation (PSDT), Lean-Agile for 16 hospitals across Malaysia (state and major hospitals) - Emergency Department and Medical Ward, Jan 2015-Sept 2015. Collaboration with MoH, IHSR, and PEMANDU. (Value Stage 1: RM 175,578.48) (Value Stage 2: RM 145,530.00)
14. Facilitator and Consultant Workshop on Training Development for Institute for Health Systems Research, Ministry of Health, 6-8 October 2015 (Value: RM 6,240.00)
15. Trainer - In-House Lean Management Training for UniKL, 21-22 September 2015. (Value: NIL)
16. Trainer and Consultant - Lean Office Management Training for UniKL Royal College of Medicine Perak (RCMP), 16-18 November 2015. (Value: RM 6,655.00)
17. Trainer and Consultant - Lean Management Training for UniKL Malaysian Spanish Institute (MSI), 13-14 June 2016. (Value: RM 4,800.00)
18. Trainer and Consultant - Lean Six Sigma Greenbelt Certification and Training for MoH and MoHA , 18-23 July 2016 (Value: RM 75,000.00)
19. Trainer and Consultant - Public Service Delivery Transformation (PSDT), Lean Healthcare - "Improving Patient Experience at Medical Ward, Hospital Kuala Lumpur", Jan 2016-June 2016. Collaboration with MoH and PEMANDU. (Value: RM 143,346.00)
20. Trainer and Consultant - Public Service Delivery Transformation (PSDT), Lean-Agile Orthopedic and Ophthalmology for 4 hospitals (Hospital Kuala Lumpur, Hospital Selayang, Hospital Sungai Buloh, Hospital Tengku Ampuan Rahimah Klang), Mar 2016 - Aug 2016. Collaboration with MoH and PEMANDU. (Value: RM 148,047.00)
21. Trainer and Consultant - Public Service Delivery Transformation (PSDT), Hospital Kuala Lumpur Transformation_Towards Premier Hospital_Patients Records Improvement, Feb 2017 - Jul 2017. Collaboration with MoH and PEMANDU. (Value: RM 145,587.00)
22. Trainer and Consultant - Public Service Delivery Transformation (PSDT), Heijunka Patient's Appointment Levelling at Specialist Clinics, Hospital Sungai Buloh, Selangor, Feb 2017 - Jul 2017. Collaboration with MoH and PEMANDU. (Value: RM 138,112.00)
23. Trainer and Consultant - Public Service Delivery Transformation (PSDT), SMED for Operation Theatre at Hospital Sultan Ismail, Johor Bahru, June 2017 - Nov 2017. Collaboration with MoH and PEMANDU. (Value: RM 110,066.00).
24. Trainer and Consultant - Public Service Delivery Transformation (PSDT), Hospital Kuala Lumpur Transformation_Towards Premier Hospital_Support Service Improvement, May 2017 - Oct 2017. Collaboration with MoH and PEMANDU. (Value: RM 138,112.79)
25. Trainer for "Bengkel Pemantapan Peranan Lean Champion Inisiatif Lean Healthcare di Kementerian Kesihatan Malaysia (KKM)", 21-22 Apr 2017. (Value: RM 8,000.00)
26. Trainer and Consultant - Lean Healthcare Sustainability Programme 1.0, in collaboration with Civil Service Delivery Unit (CSDU) Prime Minister Office & Ministry of Health (MoH) Malaysia, Jan 2018 - Feb 2018. (Value: RM 84,437.00)
27. Internal Consultant for Lean Finance and Procurement Chancellery UniKL. (25-26 Jul 2017). (Value: NIL)
28. Trainer - Bengkel Pemantapan Peranan Pegawai Unit Kualiti Sebagai Lean Healthcare Manager Bagi Inisiatif Lean Healthcare di Peringkat Jabatan Kesihatan Negeri dan

- Hospital. Kementerian Kesihatan Malaysia, KSL Hotel, and Resort, 17- 19 Sept 2017. (Value: 3,000)
29. Trainer - Bengkel Pemantapan Peranan Lean Healthcare Manager dan Lean Champion bagi Inisiatif Lean Healthcare di Peringkat Jabatan Kesihatan Negeri dan Hospital V.2.0, Kementerian Kesihatan Malaysia, City Park, i-City, Shah Alam, 4-6 Oct 2017. (Value: 3,000).
 30. Internal Consultant for Lean Finance and Procurement Chancellery UniKL. (6-7 Dec 2017). (Value: NIL)
 31. Trainer and Consultant - Bengkel Percambahan Minda Ke Arah Memupuk Nilai-Nilai Mulia Sesi 1, Jabatan Kesihatan Negeri Johor, 3 October 2018 (Value: RM 2,400)
 32. Trainer and Consultant - Bengkel Percambahan Minda Ke Arah Memupuk Nilai-Nilai Mulia Sesi 2, Jabatan Kesihatan Negeri Johor, 31 October 2018 (Value: RM 2,400)
 33. Trainer - Bengkel Meneliti Mekanisma Penambaihan Pelaksanaan Budaya Korporat Di Jabatan Kesihatan Negeri Johor (JKNJ) (Manual Perkhidmatan Pelanggan), Jabatan Kesihatan Negeri Johor, Le Grendeur Palm Resort Johor, 14-15 February 2019. (Value: RM 2,000)
 34. Trainer for Bengkel Pengukuhan Peranan Lean Champion For Lean Six Sigma, Ministry of Health (MoH), 25-27 June 2019. (Value: RM 10,800)
 35. Trainer - Bengkel Inisiatif Lean Healthcare Jabatan Kesihatan Negeri Terengganu, TY Hotel Kuala Terengganu, 15-17 July 2019. (Value: RM 4,500)
 36. Trainer for Lean Six Sigma Green Belt for, Ministry of Health (MoH), 22-27 July 2019. (Value: RM 20,000)
 37. Trainer - Training of Trainer (ToT) Advance Batch 1, Ministry of Health (MoH), 6-8 Aug 2019. (Value: RM 8,400)
 38. Trainer and Facilitator - Bengkel Lean Healthcare 2019 Peringkat Hospital, Hospital Tuanku Jaafar Seremban (HTJS), 8 October 2019. (Value: RM 2,200)
 39. Trainer - Bengkel Pengenal Inisiatif Lean Healthcare, Hospital Sultanah Aminah Johor Bahru, 12-13 December 2019. (Value: RM 5,300)
 40. Trainer / Facilitator - Bengkel Penghasilan dan Pelaksanaan Projek Rintis State Lean Flying Squad, Pusat Latihan Hospital Tumpat, Hospital Tumpat, Jabatan Kesihatan Negeri Kelantan. 3-4 February 2020. (Value: RM 5,000)

Appointment and Invited

1. Panel for Round Table Discussion (RTD), "Lean Management Practitioners Certification", organized by Malaysian Productivity Corporation (MPC), Dec 2012.
2. Panel Member in the Development of National Occupational Skill Standard (NOSS) for Lean Production System (LPS) - Jidoka Operation Level 2, 3, May-Jul 2013. Malaysia Automotive Institute (MAI).
3. Panel Bengkel Pengemaskinian Pembangunan "National Competency Standard (NCS)" Untuk "Quality Manager & Quality Engineer Certification Scheme. CIDB-PETRONAS, 16-17 November 2016.
4. Appointed as Judge for Poster Competition at 9th National Convention Quality Assurance (QA), Ministry of Health (MoH) Malaysia, 24-26 Oct 2017, Convention Center, Sungai Siput Perak.
5. Appointed as Judge for Poster Competition at 1st National Lean Healthcare Conference, Ministry of Health (MoH) Malaysia, at Grand Riverview Hotel, Kota Bharu Kelantan, 25th-27th September 2018.
6. Panel Bengkel Pembangunan Kriteria Bagi Program Pengurus Kualiti Projek atau Jurutera Kualiti Projek Tahap Perantis, CIDB-PETRONAS, 20 March 2019.
7. Member of the Board of Study Master of Management (Technology Management) Programme, Azman Hashim International Business School, Universiti Teknologi Malaysia. (Appointment for a two-year period). 1st held on Thursday, 31st October 2019 at Royal Widad Residence, Kuala Lumpur.

Lean / Lean Six Sigma Projects

1. Reduction of Dirt Defect Rate at Top Coat Process In Paint Shop (Mercedes Benz), DRB-HICOM Automotive, Pekan, Pahang, (2011).

2. Cost Reduction on Door Glass Scratches for Suzuki Swift, DRB-HICOM Automotive, Pekan, Pahang, (2011).
3. Cycle Time Improvement at Body Shop (Suzuki Swift), DRB-HICOM Automotive, Pekan, Pahang, (2011).
4. Improvement of Planned Preventive Maintenance (PPM) at Faber Group Berhad, Kuala Lumpur, (2012).
5. Energy Performance Management System (EPMS) at Faber Group Berhad, Kuala Lumpur, (2012).
6. LEAN at UniKL MITEC. Reduce the Claim Process from 54 days to 1 day, (2015).
7. LEAN Finance and Procurement Chancellery UniKL. Improving the payment process - (2017).

Professional Certification and Recognition

1. Professional Technologist, Malaysia Board of Technologists (MBOT) - GT19040210
2. Chartered Quality Professional (Chartered Quality Institute, CQI, United Kingdom) MCQI, 6000665
3. Graduated Engineer, Board of Engineer Malaysia (BEM) - GE143480A
4. Graduated Technologist, Malaysia Board of Technologists (MBOT) - GT19040210
5. Member of Malaysian Society for Engineering and Technology (MySET) - Reg no. MS#01147
6. Pakar Pengajar (PAJAR), Sektor Pengangkutan (TP05-00), Sub Sektor Jentera & Pengangkutan Darat (5.3), Siri Pendaftaran Direktori Pakar Industri Negara no. 770530145823, Jabatan Pembangunan Kemahiran (JPK).
7. Certified Trainer (TTT/4933) - PSMB/MIM
8. Certified Trainer - Lean Six Sigma Green Belt - Motorola University
9. Lean Six Sigma Green Belt - Motorola University
10. Master Black Belt Lean Six Sigma - Universiti Kuala Lumpur MITEC
11. Lean Champion - Ministry of Health (MoH) Malaysia and Universiti Kuala Lumpur MITEC

Community Service

1. Improving the parking space at hostel Maktab Rendah Sains MARA Johor Bahru, from 18/07/2018 until 18/09/2018, at Maktab Rendah Sains MARA Johor Bahru, role as advisor.
2. Improvement on the Attendance System at MRSM JB During Peak Hour, from 21/01/2018 until 20/05/2018, at Maktab Rendah Sains MARA Johor Bahru, role as advisor.
3. Improvement on the Waiting Time at Cashier Koperasi MRSM Johor Bahru, from 30/07/2017 until 26/11/2017, at Maktab Rendah Sains MARA Johor Bahru, role as advisor.
4. Bendahari Surau Ar-Rayyan, Taman Seri Pulai Perdana 2, Skudai, Johor Bahru, from 03/07/2017 until present, at Surau Ar-Rayyan TSPP2, role as bendahari surau.

Professional Development

1. Design for Manufacturability - National University Singapore
2. Design of Experiment - University Sains Malaysia
3. Measurement System Analysis (MSA) - Neville Clerk
4. Taguchi Method - Shin Taguchi / Universiti Teknologi Malaysia
5. Geometrical, Dimensional and Tolerances; GD&T - Hewlett Packard
6. Project Management Fundamental - Hewlett Packard
7. KT- PSDM (Problem Solving Decision Making) - Kepner Tregoe
8. Failure Mode Effect Analysis Workshop - Hewlett Packard / Brother Industries
9. Program on Gemba Kaizen - The Association for Overseas Technical Scholarship (AOTS)
10. Basic and New 7 QC Tools - Brother Industries Tech (M) Sdn Bhd
11. Internal Quality Auditing- Neville Clerk
12. Judging of ICC Presentation - NPC
13. Pedagogy Training (P1-P4) - UniKL
14. Outcome Base Learning - UniKL
15. Academic Writing - UniKL
16. The road to Ir. Profesional Engineer 9th Session
17. Video Content Management System (VCMS) on Panopto

INVOLVEMENT IN ACADEMIC RELATED

Research Grant

Total amount (including research cluster) = RM 212,904.00

1. The Manufacturing Performance Factors (MPF) of Electric and Electronic Industries In Penang And Johor Bahru: Criteria For Sustainability: Project Leader; Short-Term Research Grant, UniKL, UniKL/CRPGS/str10015, (RM 17,340) - 13th Apr 2010 until 13th Apr 2012. Completed
2. The Development of Manufacturing Sustainability Framework for Malaysian Industries Utilizing a Macro-Supply Chain (McSC) Approach. Co-Researcher; Fundamental of Research Grant Scheme, FRGS/1/10/TK/UNIKL/02/1, (RM 30,000) - 18th May 2010 until 17th May 2012. Completed
3. Development of Manufacturing Sustainability Framework for Electrical and Electronics Industries in Malaysia: Integrated Critical Success Factor: Co-Researcher; Short-Term Research Grant, UniKL, UniKL/CRPGS/str10012, (RM 17,564) - 13th Apr 2010 until 13th Apr 2012. Completed
4. Critical Success Factors for Lean Agile Healthcare Deployment at Ministry of Health's Hospitals: Co-Researcher; Short-Term Research Grant, UniKL, UniKL/CoRI/str17036, (RM 21,000) - 20th September 2017 until 30th Apr 2020. Active
5. Development of Conceptual Model for Selection of Improvement Initiative: Co-Researcher; Short-Term Research Grant, UniKL/CoRI/str18041, (RM20,000) - 24th October 2018 until 24th October 2021 - Active
6. A Fundamental Investigation of the Attributes That Reflect Rational Decision for Selection of Quality Improvement Initiative in Healthcare Operation, Co-Researcher; Fundamental of Research Grant Scheme (RM 67,000) - 1st Sept 2019 until 1st Aug 2021 - Active
7. Classification of the Attributes of Quality Tools and Techniques Characteristic Using Neural Network Classification, Project Leader; Short-Term Research Grant, UniKL (RM 20,000) - UniKL/CORI/str19057, (RM20,000) - 9th December 2019 until 9th December 2021 - Active

Research Cluster

1. Quality Engineering Research Cluster, Member; Research Cluster Grant UniKL, RM 20,000 from 15th December 2019 until 31st December 2020. Active

Publications

a) Thesis

1. "Intelligent Decision Support System For Selection Of Quality Tools And Techniques Via Categorization Input Function Output Definition Model". Doctor of Philosophy (Manufacturing) in Universiti Kuala Lumpur, Feb 2019.
2. "Hewlett-Packard Malaysia Technology Sdn Bhd Staff's Perception of Research and Technological Linkages with Universities." Universiti Teknologi Malaysia: Master Thesis (Project), 2008.
3. "Experimental of Pilot Plant Scale in Recovery of Mineral Oil from Waste Fuller via Solvent Extraction." Universiti Teknologi Malaysia: Bachelor Thesis, 1999.
4. "Production of 100,000 Metric Tons of Methanol per year." Universiti Teknologi Malaysia: Bachelor Project Design, 1999.

b) Conference/Colloquium/Symposium/Seminar

1. "The development of Regression Equation between Raw Water Quality Parameter for Raw Water Quality Testing.", University Kuala Lumpur, Malaysia Institute of Industrial Technology, Colloquium, 2012.
2. "Development of Value Stream Mapping (VSM) Model at Puspakom Johor Bahru Vehicle Inspection Center.", University Kuala Lumpur, Malaysia Institute of Industrial Technology, Colloquium, 2012.

3. "Transforming Malaysian Healthcare Service Delivery Through Lean Applications - A case study framework for lean implementation", UniKL MITEC Research Colloquium (MRC 2014), 12th November 2014.
4. "Body of Knowledge Quality Tools and Techniques", Universiti Kuala Lumpur Postgraduate Symposium 2014, 4th December 2014.
5. Development of CIFOD Model, Post Graduate Café and Seminar. UniKL MITEC, 19th Dec 2017.
6. "Recycling of Aluminium - Developing Design Criteria for Aluminium Cans Compressor", International Material, Industrial and Manufacturing Engineering Conference (MIMEC2013), 4-6 December 2013, Johor Bahru, Malaysia.
7. "Development of Intelligent Decision Support System for Selection of Quality Tools and Techniques". 2nd International Conference on Intelligent Manufacturing and Automation Engineering (ICIMA 2018), Universiti Sains Malaysia, September 26-28, 2018.

c) Paper Works

1. "Lean Thinking Adoption in Malaysia: Identification of Practices and Barriers, and Critical Success Factors in Transition of Manufacturing to Services Industry", Seminar Kecemerlangan Organisasi Melalui Kreativiti dan Inovasi (by Malaysian Productivity Corporation) 28 February 2013, Kuantan, Malaysia.
2. "Perlaksanaan Aktiviti Kaizen dalam Pengurusan LEAN bagi Sektor Perkhidmatan"., Seminar Kecemerlangan Organisasi Melalui Amalan Pengurusan LEAN (by Malaysian Productivity Corporation), 29 May 2013, Kuala Terengganu, Malaysia.

d) Journals

1. Kowang, T. O., Long, C. S., Rasli, A. B. M., Bin Mohd Daril, M. A., & Mustapha, I. (2014). Recycling of Aluminium-Developing Design Criteria for Aluminium Cans Compressor. In *Advanced Materials Research* (Vol. 845, pp. 489-493). Trans Tech Publications. SCOPUS Indexed.
2. Mohamad Ikbar, A.W., Allina, A., Rahmat, R.B., Yacob, S., Muhammad Nazif, H., Noor Sulawati, M.R., Mohd Haziq, Z., Nurulhuda, A., Amran, M., Ishamuddin, M. and Fairul Anwar, A.B., (2014). Six Sigma Applications: Enhancement Sigma Level towards Quality Improvement at Automative Company. In *Advanced Materials Research* (Vol. 1044, pp. 1780-1784). Trans Tech Publications. SCOPUS Indexed.
3. Abu Bakar, F. A., Subari, K., & Mohd Daril, M. A. (2015). Critical success factors of Lean Six Sigma deployment: a current review. *International Journal of Lean Six Sigma*, 6(4), 339-348. SCOPUS Indexed (Q1).
4. Ikbar, A. W. M., Khairanum, S., Amran, M. D. M., Anwar, A. B. F., & Roslan, B. R. (2018). Retracted: Systematic literature review of decision support model for Improvement initiatives selection. *Journal of Fundamental and Applied Sciences*, 10(6S), 1093-1107. ESCI Indexed
5. Mustapha, I., Nor, K.M., Wahab, M.I.A., Bakar, F.A.A., Amran, M., Daril, M., Awang, M. and Nordin, L., (2018). Knowledge Quality Effect on Process Based Management Effectiveness. *International Journal of Engineering & Technology*, 7(2.29), pp.303-310. SCOPUS Indexed.
6. Mohamad Ikbar A. W., Mazlan A, Mohd Amran M. D., Ishamuddin M., Fairul Anwar A. B. and Noor Anim Zanariah Y., 2016. Press machine process improvement by using DOE method, *ARPN Journal of Engineering and Applied Sciences*, VOL. 11, NO. 14, ISSN 1819-6608. SCOPUS Indexed.
7. Amran, M. M., Khairanum, S., Roslan, B. R., Ikbar, A. M., & Anwar, A. F. (2019). Development of Intelligent Decision Support System for Selection of Quality Tools and Techniques. *International Journal of Machine Learning and Computing*, 9(6). SCOPUS Indexed.
8. M. D. Mohd Amran, Fatihhi Januddi, S. Nuraina, A.W. Mohamad Ikbar, S. Khairanum, (2020). The Barriers in Lean Healthcare Implementation, *TEST Engineering & Management*, 82 (January-February 2020), ISSN: 0193-4120 1972-1981. SCOPUS Indexed.

9. Ikbar, A. M., Khairanum, S., Amran, M. M., Sallaudin, H., & Anim, Y. N. (2020). Rational Selection for Strategic Improvement Initiative: A Confirmatory Model. *TEST Engineering & Management*, 82 (January-February 2020), ISSN: 0193-4120 1972-1981. SCOPUS Indexed.
10. Rahmat R.B., Khairanum S., Zalina L., Zaiton K., Mohd Amran M.D (2020). Evidence of Transformational Leadership Attributes in Lean Healthcare Implementation Framework, *International Journal of Innovative Technology and Exploring Engineering*, 9(3).
11. Mohamad Rashid M R, Mohd Amran M D, Ikbar A W, Khairanum S, (2020). The Development of Ergonomics Risk Assessment Method Using Infrared Thermal Imaging. *International Journal of Advanced Trends in Computer Science and Engineering*, 9(1.1 S1). SCOPUS Indexed.
12. Mohamad Ikbar A W, Khairanum S, Mohd Amran M D, Fairul Anwar A B, Mazlan A, Ishamuddin M, (2020). Development of Rational Selection Model for Improvement Initiatives. *International Journal of Advanced Trends in Computer Science and Engineering*, 9(1.1 S1). SCOPUS Indexed.
13. Mohd Amran M D, Nur Afiqah S, Rahimah K, Mohamad Ikbar A W, Khairanum S, (2020). A Development of Logical Flow Design for Computerized System of Problem Solving and Improvement Procedure. *International Journal of Advanced Trends in Computer Science and Engineering*, 9(1.1 S1). SCOPUS Indexed.
14. Mohd Amran M D, Mohamad Ikbar A W, Fairul Anwar A B, Khairanum S, (2020). The Implementation Effectiveness of Quality Tools and Techniques. *International Journal of Advanced Trends in Computer Science and Engineering*, 9(1.1 S1). SCOPUS Indexed.
15. Fairul Anwar A B, Mohd Amran M D, Mohamad Ikbar A W, Khairanum S, Ishamuddin M, Mazlan A, (2020). Lean Six Sigma Implementation on Reducing Incoming Processes Time in QA Department at Reckitt Benckiser Sdn Bhd. *International Journal of Advanced Trends in Computer Science and Engineering*, 9(1.1 S1). SCOPUS Indexed.
16. Nur Farah Hafizah Mukhtar, Faris Fakhruallah Suhaimi, Mohd Amran Mohd Daril, (2020). Application of Lean Six Sigma in Improving QA Unit Processing Time in Aerosol Industry, *TEST Engineering & Management*, 83 (May-June 2020), ISSN: 0193-4120, 12753-12758. SCOPUS Indexed.
17. M.F Syamila Badriah, M.D. Mohd Amran, A.W. Mohamad Ikbar, Rahmat R. B4, S. Khairanum, (2020). The Development of Lean Implementation Effectiveness Index for Construction Industry, *TEST Engineering & Management*, 83 (May-June 2020), ISSN: 0193-4120, 12873-12880. SCOPUS Indexed.
18. Hassan, S., Shamsudin, M.F., Hasim, M.A., Mustapha, I., Zakaria, M.H., Daril, M.A.M., Jaafar, J. (2020). Investigation on Mediating Role of Corporate Image of University on the Link Between Service Quality and Student Loyalty, *Journal of Critical Reviews*, 7 (8), ISSN: 2394-5125, 117-121. SCOPUS Indexed.
19. Nur Aisyah M.B., Mohd Amran M.D., Khairanum S (2020). Development of a Conceptual Model of the Factors That Leading to the Problem of Using the Quality Tools and Techniques: A Current Review, *Journal of Critical Reviews*, 7 (8), ISSN: 2394-5125, 1439-1443. SCOPUS Indexed.
20. Nur Shafiqah M.S., Mohd Amran M.D., Khairanum S (2020). A Study of the Critical Success Factor of Quality Tools and Techniques Implementation: A Current Review, *Journal of Critical Reviews*, 7 (8), ISSN: 2394-5125, 1444-1448. SCOPUS Indexed.
21. H. Nur Hanis, M.D. Mohd Amran, A.W. Mohamad Ikbar, Rahmat R.B, S. Khairanum (2020). Success Factors of Value Stream Mapping Utilization in Manufacturing Industry, *Journal of Advance Research in Dynamical and Control Systems*, 12 (6), ISSN: 1943-023X, 1841-1850. SCOPUS Indexed.

- e) Book / Module
1. Lean Six Sigma Module: Towards Organizational Excellence, 2019. Penerbit Mentari, ISBN No: 978-967-0626-55-0
 2. Manual Budaya Korporat, 2020. Penerbit Jabatan Kesihatan Negeri Johor, ISBN: TBA
- f) Intellectual Property
1. Copyright on “e-IMCIFOD Model” (2019). Ref. No: LY2019003693 - Granted (Onwer and Inventor)
 2. Patent Filing on “Method and Selection System Based on Attributes of Characteristic”, Mohd Amran Mohd Daril, Mohammad Ikbar Abdul Wahab, Khairanum Subari (2020). Ref. No: PI2020000523 - Submission (Onwer and Inventor)
- g) Innovation Award
1. Award of Merit from Republic Croatia Malaysia Technology Expo (MTE) 2019, 21-23 Feb 2019
 2. Gold Medal, Malaysia Technology Expo (MTE) 2019, 21-23 Feb 2019
 3. Silver Medal National Innovation and Creativity Competition (PNiCC) 2019, 29 Aug 2019
 4. Silver Medal International Conference and Exposition on Inventions by Institutions of Higher Learning (PECIPTA) 2019, 22-23 Sept 2019
 5. Gold Medal, International Research and Innovation Exhibition (IRCIE) 2019, 25-27 Nov 2019.
 6. The Most Outstanding Innovation Award, International Research Conference and Innovation Exhibition (IRCIE) 2019, 25-27 Nov 2019.
- h) Organizing Conference
1. Organizer of 1st MITEC Research Colloquium (MRC) 2013, Universiti Kuala Lumpur, Malaysian Institute of Industrial Technology, 11th December 2013.
 2. Committee for 1st National Lean Healthcare Conference, Ministry of Health (MoH) Malaysia, at Grand Riverview Hotel, Kota Bharu Kelantan, 25th-27th September 2018.
 3. Chairman, 2nd International Research Conference and Innovation Exhibition 2019 (IRCIE 2019), 25-27 November 2019, KSL Hotel and Resort Johor Bahru.
 4. Engineering & Technology Heading, Publication Partner Committee, 13th IEEE International Conference in Mathematics, Actuarial Science, Computer Science & Statistics (MACS-13), Institute of Business Management (IoBM), Karachi, Pakistan, 14th-15th December 2019.
 5. Organizer of World Marketing Conference (WMC) 2020, Universiti Kuala Lumpur, 3rd March 2020. In conjunction with World Marketing Summit 2020 (Philip Kotler) at Primera Hotel Menara MARA KL, 2nd March 2020.
- i) Web-Based Decision Support System (Software Development)
1. Quality Tools and Techniques (QTT) Selection for Improvement and Problem Solving activities.
<http://amrandaril.com/qtt/#about>
 2. IPS - Improvement and Problem Solving Procedure.
<https://afiqahsaadin.neocities.org/>
 3. QIEFF - Measuring the level of effectiveness of Quality Improvement made.
<https://amirasyahira.neocities.org/#home>
<https://amirasyahira.neocities.org/technical.html>
<https://amirasyahira.neocities.org/non-technical.html>
 4. MeLQA System - Measuring level of Quality Awareness in Manufacturing Industry.
<https://hasrulakmal.neocities.org/Boxus%20HTML%201.1/index.html>

Supervision

Total Postgraduate Supervision (Main SV) - Active = 5

Total Postgraduate Supervision (Co-SV) - Active = 2

Total Undergraduate (Bachelor) Supervision - Completed = 47

Total Undergraduate (Diploma) Supervision - Completed = 7

a) Postgraduate

1. *Master of Engineering Technology (Manufacturing) - by Research*
Student Name/ID: Mohamad Rashid Bin Mohamad Rawan (58360318004)
Roles: Main Supervisor
Title: *The Effect Of Physical Factors And Ergonomics Conditions On The Work-Related Musculoskeletal Disorders (WMSDs) Among Saddle Chair User: A Comparative Study In Different Industries In Malaysia*
Status: In study
2. *Master of Engineering Technology (Manufacturing) - by Research*
Student Name/ID: Wan Mohd Faez Hilme bin Wan Mohd Nor (58360219006)
Roles: Main Supervisor
Title: *Quality Application For Corresponding Preventive Maintenance Plan For Agitator (Industrial Rotating Mixing Equipment) : Case Study in Chemical Plant*
Status: In study
3. *Master of Engineering Technology (Manufacturing) - by Research*
Student Name/ID: Siti Zawani Binti Ibrahim (58360220006)
Roles: Main Supervisor
Title: *Rational Decision For Selection of Quality Improvement Initiative*
Status: In study
4. *Master of Quality Engineering and Management - Mixed Mode*
Student Name/ID: Syuhada Binti Shahul Hameed (57360220012)
Roles: Main Supervisor
Title:
Status: In study
5. *Master of Management - Mixed Mode*
Student Name/ID: Mohd Shazaril Bin Mohd Zain (57360220003)
Roles: Main Supervisor
Title:
Status: In study
6. *Master of Management - by Research*
Student Name/ID: Norfazira Binti Rosman (62360219028)
Roles: Co Supervisor
Title: *The Efficiency of Layout Arrangement Affected The Movement of Workplace*
Status: In study
7. *Doctor of Philosophy (Management)*
Student Name/ID: Nohman Khan (62480219020)
Roles: Co Supervisor
Title: *Direct and Indirect Effects of Digital Marketing Strategies on Ecotourism in Tourism Industry of Pakistan*
Status: In study

b) Bachelor of Engineering Technology (Quality Engineering) with Honours (Completed only).

❖ Industrial-Based FYP - In collaboration with external organization

1. Development of Value Stream Mapping (VSM) Model at Puspakom Johor Bahru Vehicle Inspection Center. July 2011
2. The Development of Regression Equation among Raw Water Quality Parameters for Raw Water Quality Testing. Syarikat Air Johor (SAJ). July 2011
3. Lean in Healthcare: Reducing Muda in Medical Ward Hospital Sultan Ismail, Johor, July 2016
4. Lean in Healthcare: Reducing Mura Muri in Medical Ward Hospital Sultan Ismail, Johor, July 2016.

5. The Development of Effective Inventory Management at Bumi Subsea Sdn Bhd, Jan 2017.
6. A Study on Operation Improvement at Process Flow of Patient Waiting Time at Klinik Kesihatan Batu 2 ½, Jalan Air Putih, Chukai, Kemaman, Terengganu by Using Lean Approach, Jan 2017.
7. Implementation of Lean Methodology to Improve the Inventory Process at Bumi Subsea Sdn Bhd, Jan 2017.
8. Development of Procurement Process Improvement at Bumi Subsea Sdn Bhd Company Using Value Stream Mapping Method, Jan 2017.
9. Improving the Handling Procedure of Nonconformance Product Using FMEA Method at BM Nagano Industries Sdn Bhd. July 2017
10. Experimental Design Approach of Carbon Dioxide Utilization for Precipitated Calcium Carbonate. PETRONAS. July 2017
11. Implementation of Lean Manufacturing Methodology in FFS Process to Improve the Efficiency of Machine at Masray Plastik Sdn Bhd. January 2018
12. The Lean Healthcare: Improving Patient Waiting Time in Mother and Child Health Department at Klinik Kesihatan Pasir Gudang. Jan 2018
13. A Study of Workflow Efficiency Improvement by Implementing Lean Methodology at Testing Material Laboratory Kumpulan Ikram Sdn Bhd Johor. Jan 2019.
14. An Exploratory Study of Barrier in Lean Healthcare Implementation at Sultan Ismail Hospital in Johor Bahru. July 2019.
15. Successful Quality Practice in Chemical Industry to Improve Safety Hazard Awareness in Workplace. July 2019.
16. Assessing and Designing Work Practice Using Current Ergonomic Risk Assessment Method for SAF Services Sdn Bhd. July 2019.
17. Material Yard Storage Area Optimization for Malaysia Marine Heavy Engineering (MMHE) Berhad. January 2020.

❖ *Product-Based FYP*

1. The Development of Decision Support System Self-Assessment Tool for Lean Implementation in Healthcare Industry. July 2017
2. A Computerized Process for Supporting Problem Solving and Improvement Project. July 2017
3. The Development of Decision Support System in Measuring the Level of Effectiveness in Quality Improvement. Jan 2018
4. The Development of Decision Support System in Measuring the Level of Quality Awareness in Manufacturing Industry. Jan 2018
5. The Development of Decision Support System to Determine the Implementation of Quality Tools and Techniques Without High Barrier. July 2018.
6. The Development of Lean Effectiveness Index in Construction Industry. July 2019.

❖ *Research Based FYP*

1. The Manufacturing Performance Factors (MPF) of Electrical and Electronic Industries in Pasir Gudang, Johor: Criteria for Sustainability. May 2012
2. Problem-Solving Tools and Techniques: A Selection Guideline. November 2012.
3. Study on the Root Cause Analysis in Methodology of PDCA and Islamic Perspective. November 2012
4. The Study of Exploration on Turnover Time Using Lean Approach at Hospital Operating Room. November 2012
5. The Study of Supplier Selection Criteria in Service Industry Based on Manufacturing Industry Perspective. May 2013
6. Application of DOE on Best Parameter and Performances of Roundness Measurement Machine at UniKL MITEC. 2013
7. Comparative Study Between Laser Interferometer and Gauge Block by Universal Length Measurement (ULM) Machine. 2013
8. Study on Application of Statistical Process Control and Poka-Yoke Technique in Order to Improve Water Consumption at Hostel UniKL MITEC. 2013

9. Development of Conceptual Framework for the Barrier of Using Quality Tools and Techniques Application at Manufacturing Industry. July 2017
10. A Study of the Critical Success Factor of Quality Tools and Techniques (QTT) Implementation in Pasir Gudang Industrial Area. July 2017
11. Application of Quality Tools for Teaching Style in Secondary School, July 2017
12. An Empirical Study on the Lean Readiness in the Food Industry: A Case Study in Johor Bahru Area. Jan 2018
13. An Empirical Study on the Lean Readiness in the Construction Industry: A Case Study in Johor Bahru Area. Jan 2018
14. The Exploratory Study on the Relationship Between the Manufacturing Strategy and the Manufacturing Capabilities Towards the Improvement of Production Performance. Jan 2018
15. An Exploratory Study on the Relationship Between Factors Influencing University and Programme Selection Among Students In Universiti Kuala Lumpur Malaysian Institute of Industrial Technology. July 2018.
16. An Exploratory Study on the Factors Influencing the Purchasing of Harsh Chemical-Contained Skin Lighteners. July 2018.
17. A Study of Critical Success Factor of Improvement Methodology in Pasir Gudang Industrial Area. Jan 2019.
18. An Exploratory Study on the Success Factors of Value Stream Mapping (VSM) Utilization in Manufacturing Industry at Johor Bahru Area. July 2019.
19. Study on Factor in Waste Water Treatment at UniKL MITEC. January 2020.
20. The Development of Regression Equation of Relationship Between Sound Intensity and Frequency. January 2020.
21. Analyzing Factor of Defect Vote During 14th Malaysia General Election in Johor Bahru Parliament. January 2020.
22. An Exploratory Factors Analysis that Influencing the Students to Choosing the Program at Universiti Kuala Lumpur Malaysian Institute of Industrial Technology. January 2020.

c) *Bachelor of Industrial Logistic (Hons) (Completed only).*

1. A Study on Customer Satisfaction of Mayang Sari Bus Services at Larking Bus Terminal. July 2017
2. A Study on Customers Satisfaction on Bus Terminal Facilities at Larkin Bus Terminal. July 2017

d) *Diploma of Engineering Technology in Quality Engineering (Completed only).*

1. Electrical and Electronic Industry Performance Criteria (IPC) in Pasir Gudang area. November 2010
2. Comparison of Waste Handling In Pandan City Wet Market and Kipmart Wet Market in Johor Bahru. July 2011
3. Motion study and Improvement at Assembly Production at Calsonic Kensei Malaysia Sdn Bhd. July 2011
4. A Case Study of Quality Tools Implementation at Pasir Gudang, Johor Bahru: Malaysia Marine and Heavy Engineering Holding Berhad (MMHE), Jan 2017
5. Study on the Customers Satisfaction Towards the School Bus Service in Masai Area, July 2017.
6. Assessment of Industrial Engineering Workshop at UniKL MITEC Towards Actual Industrial Setup. 2018.
7. A Study on Factor Influencing UniKL MITEC Students Towards Purchasing Halal Products. July 2019.

New Program Development at UniKL MITEC

1. Lead the development of new bachelor engineering technology program at UniKL MITEC in 2011, namely Bachelor of Engineering Technology (Hons) in Instrumentation and Control Engineering. JPT/BPP (N/523/6/0093) 09/17, MQA PA 1995

2. Lead the development of new bachelor engineering technology program at UniKL MITEC in 2016, namely Bachelor of Engineering Technology (Hons) in Oil and Gas. (ETAC Approval, 2018)
3. Member of the development of the new master program at UniKL MITEC in 2016, namely Master in Quality Engineering and Management. JPT/BPP(N/520/7/0113) MQA/PA 11128

List of Teaching Courses

Level of Study : Master					
Semester / Year	Course Titles & Codes	No. of Students	Course Type (FT/PT)	Average Contact Hours per week	Organizer
Jul / 2020	Advanced Improvement and Economics of Quality (JQG 60403)	26	FT	4	UniKL MITEC

Level of Study : Bachelor					
Semester / Year	Course Titles & Codes	No. of Students	Course Type (FT/PT)	Average Contact Hours per week	Organizer
July / 2009	Engineering Mathematics 1 (JGB 10203)	13	FT	3	UniKL MITEC
	Engineering Mathematics 2 (JGB 10403)	18	FT	3	UniKL MITEC
	Mathematics (JGB 10103)	24	FT	3	UniKL MITEC
Jan / 2010	Engineering Mathematics 1 (JGB 10203)	14	FT	3	UniKL MITEC
	Engineering Mathematics 2 (JGB 10403)	21	FT	3	UniKL MITEC
	Mathematics (JGB 10103)	17	FT	3	UniKL MITEC
	Cost of Quality (JQB 30402)	6	FT	3	UniKL MITEC
July / 2010	Innovation and Creativity Circle (ICC) Competition (JQB 30103)	9	FT	5	UniKL MITEC
	Quality Improvement Tools and Method (JQB 20102)	16	FT	3	UniKL MITEC
Jan / 2011	Innovation and Creativity Circle (ICC) Competition (JQB 30103)	24	FT	5	UniKL MITEC
	Quality Improvement Tools and Method (JQB 20102)	32	FT	3	UniKL MITEC
July / 2011	Innovation and Creativity Circle (ICC) Competition (JQB 30103)	30	FT	5	UniKL MITEC
Jan / 2012	Innovation and Creativity Circle (ICC) Competition (JQB 30103)	26	FT	5	UniKL MITEC
July / 2012	Innovation and Creativity Circle (ICC) Competition (JQB 30103)	17	FT	5	UniKL MITEC
	Innovative and Creative Circles (ICC) (JQB 31103)	1	FT	5	UniKL MITEC
Jan / 2013	Innovative and Creative Circles (ICC) (JQB 31103)	39	FT	5	UniKL MITEC
Sept / 2013	Innovative and Creative Circles (ICC) (JQB 31103)	29	FT	5	UniKL MITEC

Jan / 2016	Statistical Quality Control (JQB 20503)	42	PT	4	UniKL MITEC
Sept / 2016	Cost of Quality (JQB 30403)	10	FT	3	UniKL MITEC
	Innovative and Creative Circles (ICC) (JQB 31103)	47	FT	5	UniKL MITEC
Jan / 2017	Cost of Quality (JQB 30403)	9	FT	3	UniKL MITEC
	Innovative and Creative Circles (ICC) (JQB 31103)	13	FT	5	UniKL MITEC
	Total Quality Management and Business Excellence (JQB 11203)	25	FT	3	UniKL MITEC
July / 2017	Cost of Quality (JQB 30403)	30	FT	3	UniKL MITEC
	Innovative and Creative Circles (ICC) (JQB 31103)	41	FT	5	UniKL MITEC
Jan / 2018	Innovative and Creative Circles (ICC) (JQB 31103)	6	FT	5	UniKL MITEC
Jul / 2018	Innovative and Creative Circles (ICC) (JQB 31103)	27	FT	5	UniKL MITEC
	Innovative and Creative Circles (ICC) (JQB 32503)	10	FT	5	UniKL MITEC
Jan / 2019	Innovative and Creative Circles (ICC) (JQB 32503)	30	FT	5	UniKL MITEC
Jul / 2019	Innovative and Creative Circles (ICC) (JQB 31103)	1	FT	5	UniKL MITEC
	Innovative and Creative Circles (ICC) (JQB 32503)	29	FT	5	UniKL MITEC
Jan / 2020	Innovative and Creative Circles (ICC) (JQB 32503)	20	FT	5	UniKL MITEC
Jul / 2020	Innovative and Creative Circles (ICC) (JQB 32503)	26	FT	5	UniKL MITEC

Level of Study : Diploma					
Semester / Year	Course Titles & Codes	No. of Students	Course Type (FT/PT)	Average Contact Hours per week	Organizer
July / 2010	Problem Solving Circle (JQD 30102)	14	FT	3	UniKL MITEC
	Quality Tools (JQD 20203)	40	FT	3	UniKL MITEC
Jan / 2011	Problem Solving Circle (JQD 30102)	22	FT	3	UniKL MITEC
July / 2011	Problem Solving Circle (JQD 30102)	37	FT	3	UniKL MITEC
Jan / 2012	Problem Solving Circle (JQD 30102)	12	FT	3	UniKL MITEC
	Quality Tools (JQD 20203)	17	FT	3	UniKL MITEC
Jan / 2013	Introduction to Innovative and Creative Circles (ICC) (JQD 31102)	1	FT	3	UniKL MITEC
	Problem Solving Circle (JQD 30102)	11	FT	3	UniKL MITEC
Sept / 2013	Introduction to Innovative and Creative Circles (ICC) (JQD 31102)	50	FT	3	UniKL MITEC

Sept / 2016	Introduction to Innovative and Creative Circles (ICC) (JQD 31102)	31	FT	3	UniKL MITEC
July / 2017	Introduction to Innovative and Creative Circles (ICC) (JQD 31102)	5	FT	3	UniKL MITEC
Jan / 2018	Introduction to Innovative and Creative Circles (ICC) (JQD 31102)	31	FT	3	UniKL MITEC
	Quality Tools (JQD 22303)	1	FT	3	UniKL MITEC
Jul / 2018	Introduction to Innovative and Creative Circles (ICC) (JQD 31102)	5	FT	3	UniKL MITEC
Jan / 2019	Innovative and Creative Circles (ICC) (JQD 32103)	1	FT	3	UniKL MITEC
Jul / 2019	Innovative and Creative Circles (ICC) (JQD 32103)	17	FT	3	UniKL MITEC
Jan / 2020	Innovative and Creative Circles (ICC) (JQD 32103)	10	FT	3	UniKL MITEC

List of Courses Developed

Semester / Year	Course Titles & Codes	No. of Students	Course Type (FT/PT)	Average Contact Hours per week	Organizer
Program: Bachelor Engineering Technology (Instrumentation and Control Engineering)					
Jan 2011~ Dec 2011	Distributed Control System (JCB 20503)	N/A	FT	3	UniKL MITEC
	Chemical and Bioprocess Instrumentation (JCB 30904)	N/A	FT	4	UniKL MITEC
	Environmental Analysis Principles and Measurement (JCB 30203)	N/A	FT	3	UniKL MITEC
Program: Bachelor of Petroleum Engineering Technology (Operation and Safety) with Honours					
Jan 2017~ Dec 2017	Introduction to Oil and Gas industry (JOB 10103)	N/A	FT	3	UniKL MITEC
Program : Master of Quality Engineering and Management					
Jan 2017~ Dec 2017	Advance Measurement and Inspection Technology (JQG 60303)	N/A	FT	3	UniKL MITEC