



CURRICULUM VITAE

ASSOC. PROF. DR. SAMSUL BAHARI B MOHD NOOR, S.M.P.

Ph.D, M.Sc, B.Eng (Hons), SMIEEE, MIAENG, MACA

Department of Electrical and Electronic Engineering,

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samsul@upm.my

1. Biographical Data

Date of Birth : 23 January 1967
Place of Birth : Temerloh, Pahang
Identification Number : 670123-06-5211 (A0571310)
Sex : Male
Marital Status : Married
Nationality : Malaysian
Religion : Islam

2. Area of specialisation and Research Interests

Control Systems Engineering
System Modelling and Simulation
Process Control
Instrumentations

3. Professional Membership

Senior Member of Institution of Electrical and Electronic Engineers (IEEE), USA. (Membership No.41466522)

Member of IEEE Control System Society

Member, International Association of Engineers, Hong Kong (Membership No.118498)

Member, Asian Control Association, Taiwan.

Member, Malaysian Society of Automatic Control Engineers (Membership No. 000031)

Registered with Board of Engineers Malaysia (Reg No. 46365A)

Certified CCNA

Qualified Safety Officer (Occupational Safety and Health)

4. Education

Primary	1974-1979	Sek. Keb. Paya Pulai, Temerloh, Pahang
Secondary	1980-1984	Maktab Rendah Sains MARA, Kuantan
College	1985-1987	Maktab Rendah Sains MARA, Seremban (GCE A-Level)
Tertiary	1987-1990	University of Warwick, UK (B.Eng (Hons))
	1991-1992	University of Sheffield, UK (MSc)
	1993-1996	University of Sheffield, UK (PhD)

5. Academic Qualifications:

Nov. 1996	Ph.D (Control Systems Engineering)	University of Sheffield, UK
Sept. 1992	M.Sc (Control Systems Engineering)	University of Sheffield, UK
Jul. 1990	B.Eng (Hons) (Electronics)	University of Warwick, UK

6. Language Competency

<u>Language</u>	<u>Written</u>	<u>Spoken</u>	<u>SPM</u>
Bahasa Malaysia	Excellent	Excellent	A1
English	Very Good	Very Good	C3
Bahasa Arab	Beginner	Beginner	-

7. Awards/Scholarship

Anugerah Perkhidmatan Cemerlang (Excelent Service Awards) 2017, UPM
Anugerah Perkhidmatan Cemerlang (Excelent Service Awards) 2014, UPM
Anugerah Kecemerlangan Dalam Pengajaran 2012, 2016, 2017 Fakulti Kejuruteraan, UPM
Sijil Perkhidmatan Cemerlang (Excelent Service Awards) 2011, UPM
Darjah Kebesaran Mahkota Pahang Yang Amat Mulia – Peringkat Ketiga Setia Mahkota Pahang (SMP), Oktober 2010. DYMM Sultan Pahang.
Anugerah Kecemerlangan dalam Pengajaran Tahun 2010, Fakulti Kejuruteraan.
Marquis
Who'Who in the World, 2010
Sijil Perkhidmatan Cemerlang (Excelent Service Awards) 2009, UPM
Sijil Perkhidmatan Cemerlang (Excelent Service Awards) 2008, UPM
Sijil Perkhidmatan Cemerlang (Excelent Service Awards) 2007, UPM
Silver Medal Award (BLES-WATER : Blending System to Increase Availability of Water for Agriculture), Pameran Rekacipta, Penyelidikan dan Inovasi, UPM 2007.
Silver Medal Award (Tool for Static Voltage of Collapse Point Determination using CPF BICGSTAB), Pameran Rekacipta, Penyelidikan dan Inovasi, UPM 2007.
Sijil Perkhidmatan Cemerlang (Excelent Service Awards) 2006, UPM
Sijil Perkhidmatan Cemerlang (Excelent Service Awards) 2005, UPM
Anugerah Dekan, Field Robot Event, Fakulti kejuruteraan, 2007.
Anugerah Field Robot Event 2006, Germany (Best Free-style, 3rd place Hole Detection)
Sijil Perkhidmatan Cemerlang (Excelent Service Awards) 2004, UPM
Pemenang Ketiga, Pertandingan ROBOCON 2005
Anugerah Idea Terbaik, Pertandingan ROBOCON 2005.
Hadiah Rekabentuk Terbaik, Pertandingan ROBOCON 2005.
Silver Medal Award (Development of a Capacitance-based Biosensor for Detection of Histamine in Fish Products), R&D Exhibition, Institute of Bioscience, UPM, 2004
Anugerah Khidmat Cemerlang (Excelent Service Awards) 2003, UPM
Anugerah Khidmat Cemerlang (Excelent Service Awards) 2002, UPM
Silver Medal Awards (Direct Stress Measurement System), R&D Exhibition, Fakulti Kejuruteraan, UPM, 2002.
Federal Scholarship for PhD Research Studies at University of Sheffield, UK
Federal Scholarship for MSc Studies at University of Sheffield, UK
MARA Scholarship for B.Eng (Hons) Studies at University of Warwick, UK
MARA Scholarship for A-Level studies at MRSM Seremban
MARA Scholarship for Secondary Education at MRSM Kuantan

8. Academic and Other Relevant Appointments/Experience

June 2011 – Mei 2014	Director, Development and Asset Management Office, UPM
August 2009 – May 2011	Director, Occupational Safety and Health Management Office, UPM
1 April 2011 – present	Associate Professor, Dept. of Electrical and Electronic Engineering, Faculty of Engineering, UPM
Aug. 2006 – July 2009	Deputy Dean (Development & Finance), Faculty of Engineering, UPM
Dec. 2004 – Aug. 2006	Head, Dept. of Electrical and Electronic Engineering, Faculty of Engineering, UPM
Oct. 2004 – 31 Mar. 2011	Senior Lecturer, Dept. of Electrical and Electronic Engineering, Faculty of Engineering, UPM
Nov. 2000 – Oct. 2003	Head, IT Unit, Faculty of Engineering, UPM
Dec. 1996 – Sept. 2004	Lecturer at the Dept. of Electrical and Electronic Engineering, Faculty of Engineering, UPM
Jan. 1991 – Nov. 1996	Tutor at the Dept. of Electronic and Computer Engineering, Faculty of Engineering, UPM (on study leave from Oct. 1991 – Nov. 1996)
Jan. 1991 – Sept. 1991	Fellow, Kolej Kediaman Keenam, UPM
August 1988	Industrial Training at the Malaysian Airline System, Subang

9. Administrative Duties and Other Responsibilities

9.1 Committee

- Ahli, Jawatankuasa Penilaian Permohonan Geran Penyelidikan, UPM (2018-2019)
- Ahli, Jawatankuasa Penilaian Permohonan Geran Penyelidikan, UPM (2017)
- Ahli, Jawatankuasa Pengurusan Nilai, UPM (Sept. 2017 – Ogos 2019)
- Ahli, Jawatankuasa PutraMOOC for Engineering Mathematics (Julai 2017 -)
- Ahli, Jawatankuasa Arahan Perubahan Kerja, UPM (Ogos 2015 - Jul 2018)
- Ahli, Jawatankuasa Penilaian Perunding, UPM (Ogos 2015 - Jul 2018)
- Ahli, Jawatankuasa Pengurusan Nilai, UPM (Sept. 2015 - Ogos 2018)
- Pengerusi, Jawatankuasa Arahan Perubahan Kerja, (Jun 2011-Mei 2014)
- Pengerusi, Jawatankuasa Penilaian Perunding, (Jun 2011-Mei 2014)
- Ahli, Jawatankuasa Keselamatan dan Kesihatan Pekerjaan, UPM (Jun 2011-Mei 2014)
- Pengerusi, Jawatankuasa Teknikal dan Panel Penasihat, Keselamatan dan Kesihatan Pekerjaan, UPM (Ogos 2010 – Mei 2011)
- Pengerusi, Jawatankuasa Pemeriksa Tempat kerja, UPM (Jan 2010 – Mei 2011)
- Setiausaha, Jawatankuasa Keselamatan dan Kesihatan Pekerjaan, UPM (Ogos 2009 – Mei 2011)
- Ahli, Jawatankuasa Teknikal dan Panel Penasihat Keselamatan Kesihatan pekerjaan, UPM (Ogos 2009 – Ogos 2010)
- Timb. Pengerusi, Jawatankuasa Laman Web Fakulti Kejuruteraan, UPM (Feb 2008-Julai 2009)
- Pengerusi, Jawatankuasa Keselamatan dan Kesihatan Pekerjaan, FK (Ogos 2006-Julai 2009)
- Pengerusi, Jawatankuasa Pembangunan, FK (Ogos 2006-Julai 2009)
- Ahli, Jawatankuasa Pembangunan Galeri, Fakulti Kejuruteraan (Sept. 2006-Julai 2009)
- Ahli, Jawatankuasa Petugas Pembangunan, UPM (Ogos 2006 – April 2008)
- Ahli, Jawatankuasa Rundingan Teknikal dan Kewangan, UPM (Mulai Ogos 2006-2007)

Ahli, Jawatankuasa Lanskap, UPM (Mulai Ogos 2006)
Ahli, Jawatankuasa Program Bachelo, Fakulti Kejuruteraan (sehingga Ogos 2006)
Ahli, Jawatankuasa Pengajian Siswazah, Fakulti Kejuruteraan (sehingga Ogos 2006)
Ahli, Jawatankuasa Pembangunan, FK (sehingga Ogos 2006)
Ahli (Wakil Majikan), Jawatankuasa Keselamatan dan Kesihatan, FK (Feb 2005 - Ogos 2006)
Ahli, Jawatankuasa Pembangunan Tasik Jurutera, FK
Ahli, Jawatankuasa Pengendalian Peperiksaan, Jabatan KEE, FK
Juruaudit Kanan Dalam (ISO9001:200), Fakulti Kejuruteraan
Ahli, jawatankuasa Penasihat, ROBOCON 2005 dan 2006, FK
Advisor to the IT Unit, Faculty of Engineering, Universiti Putra Malaysia.
Committee member, IT Infrastructure, Universiti Putra Malaysia
Committee member, IT Security, Universiti Putra Malaysia

9.2 Departmental Services

Member, sub-committee for Human Resource Management and Development (May 2017- present)
Head of Control and Signal Processing Research Group (2008 – present)
Member of Sub-Committee for Human Resource Development (May 2017 -)
Head of Intelligent and Control System Design Research Area (2017 – present)
Head of Control Unit, (June 2003 – April 2004)
Secretary for departmental meetings (Jan. 1997 – Nov. 1997)
Secretary for Electrical Industrial Drives and Control Systems Unit (Dec. 1997 – Dec. 2003)
Academic Advisor for BE (Electrical/Electronics) students (May 1997 – present)
Co-ordinator for Computer and Microcontroller Laboratory (Jun. 1997 – 2002)
Member of Examination Committee (Jan. 1998 – Jun 2000)
Chairman of Examination Committee (Jun 2000 – April 2004)

9.3 Committee Services

Head of Information Technology Unit, Faculty of Engineering, UPM (Nov. 99 – Nov. 2000)
Committee member, Jawatankuasa Waja-diri Pelajar, Faculty of Engineering, UPM
Committee member, Jawatankuasa Prestasi Akademik Pelajar, Faculty of Engineering, UPM
Committee member, Jawatankuasa Kurikulum, Jabatan KEE, Faculty of Engineering, UPM
Member of Information Technology Council, Faculty of Engineering, UPM (Dec. 97 – present)
Member of IT Support Centre, Faculty of Engineering, UPM (Apr. 98 – Nov. 99)
Member of FEIIC (Federation of Engineering Institutions of Islamic Countries) Secretariat (Nov. 1997 – 2002)
Member of Pro-term committee for the formation of National Academy of Engineering Malaysia (NAEM) (June 1997 – 2002)

10. Research Activities

10.1 Head of the following research:

Formulation of Inferential Algorithm for Estimation of Influential Variable in PHA Production using Wavelet Neural Network Approach, Geran Putra (Sept 2017 – Aug 2019)
RM50,000

Monitoring And Fault Detection of Batch Process Using Walevel Neural Network Based Inferential Model, Geran IPS (Apr 2016 – Apr 2018), RM10,000

Investigation of Simple and Constructive Algorithm for Estimation and Control of Nonlinear Underactuated System under Uncertainties and Disturbance using Extended High Gain Observer, Geran IPS (Apr 2016 – Apr 2018), RM17,000

Exploration on Optimised Real-time Intelligent Control of Grain Dryer RUGS (2011-2012) RM30,000

A genetically trained fuzzy neural controller for grain dryers, RUGS (2007-2009) RM 60,000

Development of Hybrid Control for Distillation Column, IRPA (2004-2005) RM 117,000

Intelligent Satellite Control, IRPA (2000-2003) RM240,000

Optimal Adaptive Control of Chemical Processes, Short Term (1999 - continuation) RM10,000

Optimisation of Process Control, Short Term (1999 - continuation) RM10,000

Optimal Adaptive Control of Chemical Processes, Short Term (1998 - continuation) RM10,000

Optimisation of Process Control, Short Term (1998) RM15,000

Optimal Adaptive Control of Chemical Processes, Short Term (1997) RM15,000

10.2 Member of research group:

An Autotuning of Hybrid Intelligent Controller for Process Control System, 2015, UPM

Modelling and Design of Dielectric Elastomer Artificial Muscle Actuator, 2015, UPM

Battery Operated Portable Refrigerator for Motorcycle, 2015, UPM

Development of Software Package for Active Noise Control Analysis (2007-2008), UPM RM10,000

Development of Active Noise Control System in Vehicle using State-space Approach (2007-2009), IRPA, RM33,500

Intelligent Predictive Control of An Autonomous Mobile Robot Navigation (2006-2008), IRPA, RM136,000

Weather Elements Detection And Removal In Robotic Vision (2006-2008) RM217,000, IRPA,

Voltage Collapse Point Determination Technique Using Fuzzy-Based Formulation (2006-2008), IRPA, RM138,000

Design of Manual and Autonomous Mobile Robot (2005-2006), UPM, RM250,000

Agricultural Mobile Robot for Field Robot Event (2005-2006), UPM, RM50,000

Design of Manual and Autonomous Mobile Robot (2004-2005), UPM, RM80,000

Design of Interactive Web-based Instructional System (2003-2005), IRPA, RM169,000

Monitoring of Stress in Pre-stressed Steel in Bridge, IRPA (1999-2001)

10.3 Mentor for the following research

Speed Monitoring System (2002)

FACTS Controller (2003)

Fault Detection and Diagnosis using Neural Network for CSTR (2003)

Real-time Inverted Pendulum Controllers for SISO and MIMO Analysis (2003)

Intelligent Movement Control for Robot (2004)

11. Teaching Experience

EEE4406 Industrial Process Control	3 credits (Bac/MSc)
EEE4405 Embedded Control System	3 credits (Bac/MSc)
ECC3002 Engineering Mathematics II	3 credits (Bac)

EEE3301 Electrical and Electronic Principles	3 credits (Bac)
ECC3002 Control System	3 credits (Bac)
EEE5401 Fuzzy Modelling and Control	3 credits (Msc/PhD)
ECC3002 Engineering Mathematics II	3 credits (Bac)
ECC3002 Engineering Mathematics II	3 credits (Bac)
EEE3401 Control System	3 credits (Bac)
EEE4406 Industrial Process Control	3 credits (Bac./M.Sc)
EEE3401 Control System	3 credits (Bac)
KEE5955 Model Predictive Control	3 credits (MSc/PhD)
EEE4406 Industrial Process Control	3 credits (Bac./M.Sc)
EEE3401 Control System	3 credits (Bac)
KEE5955 QFT Control	3 credits (PhD)
EEE4406 Industrial Process Control	3 credits (Bac./M.Sc)
KEE3402 Control System	3 credits (Bac)
KEE4409 Process Control	3 credits (Bac./M.Sc)
KEE3402 Control System	3 credits (Bac)
KEE4409 Process Control	3 credits (Bac./M.Sc)
KEE3402 Control System	3 credits (Bac)
KEE4409 Process Control	3 credits (Bac./M.Sc)
KEE3402 Control System	3 credits (Bac)
KEE4411 Computer Aided Control System Design	3 credits (Bac/MSc)
KEE4409 Process Control	3 credits (Bac./M.Sc)
KEE4405 Digital Control Systems	3 credits (Bac./M.Sc)
KEE4404 Data Acquisition and Process Control	3 credits (Bac./Msc)
KEE4405 Digital Control Systems	3 credits (Bac./M.Sc)
KEE3402 Control System	3 credits (Bac.)
KEE4405 Digital Control Systems	3 credits (Bac./M.Sc)
KEE3108 Signal Processing	3 credits (Bac.)
KEE3402 Control System	3 credits (Bac.)
KEE3401 Microcontroller Technology	4 credits (Bac.)
KEE4405 Digital Control Systems	3 credits (Bac./M.Sc)
KEE3108 Signal Processing	3 credits (Bac.)
KEE3402 Control Systems	3 credits (Bac.)
KEE3105 Digital Circuits	4 credits (Bac.)
KEE4405 Digital Control Systems	3 credits (Bac./M.Sc)
KEE3108 Signal Processing	3 credits (Bac.)
KEE3402 Control Systems	3 credits (Bac.)
KEE3105 Digital Circuits	4 credits (Bac.)
KEE3108 Signal Processing	3 credits (Bac.)
KKK3001 Engineering Mathematics I	3 credits (Bac.)
KK595 Systems Modelling and Simulation	3 credits (M.Sc)
KEE3105 Digital Circuits	4 credits (Bac.)
KKK3001 Engineering Mathematics I	3 credits (Bac.)

12. Project Supervision

Supervision	Graduated		On-going	
	PhD	MSc	PhD	MSc
Main Supervisor	6	17	2	0
Co-Supervisor	11	21	7	3

12.1 Postgraduate Student : Main Supervisor

No	Name	Title of Project	Status
1	Asaad Abdallah Yousuf Malik	Computer Control of Packed Type Binary Distillation Column	MSc, Completed Dec 98
2	Abdul Salam Ali	Auto-dialing Environment Monitoring System	MSc, Completed May 2000
3	Suhaila Isaak	Direct Stress Measurement for Bridge Assessment	MSc, Completed Nov 2000
4	Azura Che Soh	Design and Development of Traffic Light Fault Detection System	MSc, Completed Nov 2001
5	Marizan Yaacob	Process Modelling and Control	MSc, Completed Nov 2001
6	Erny Aznida Alwi	Position Control Strategies for DC Servo	MSc, Completed Nov 2002
7	Yousif Sulaiman EtTomi	Microcontroller-based Speed Control of DC Machine	MSc, Completed Feb 2004
8	Nor Azlin Ibrahim	Bilinear Distillation Column Control	MSc, Completed May 2004
9	Nor Wardiah Spian	Anti-Fraud Detection for a Public Telephone	MSc, Completed 2007
10	Lim Wen Dee	Chlorination Control in Water Processing Plant	deferred May 2004 Dropped
11	Jimmy Dawood	Auto-breaking Control System	MSc, Terminated
12	Ding She Kion	HVAC Control using GA	MSc, Terminated
13	Ilanur Muhaini Mohd Noor	Fuzzy Control of Neutralisation Process	MSc, Completed May 2009
14	Hasmah Mansor	Intelligent Control of CSTR	MSc, Completed 2006
15	Mohd Azrim Basri	Intelligent Signalling for Safe Crossing	2007, Dropped
16	Syed Sulaiman Kaja Mohideen	Virtual Parallel Port	MSc, Dropped
17	Rosman Muhammad	Sliding Mode Control of Heat Exchanger	MSc, Dropped
18	Shadi Ansarpanahi	Model Predictive Control of a Nonlinear Process	MSc, Completed April 2009
19	Siti Khairani Shamsuddin	Modelling and Control of CSTC Column	MSc, 2007 Terminated
20	Ehsan Keramati	Nonlinear Control System	MSc, Completed Dec 2010
21	Fehri Heltha	Intelligent Satellite Control	PhD, Dropped

22	Mas Ayuzie Jamaluddin	Packed Type Distillation Modelling and Control	PhD, Dropped (Defer Jan 2011)
23	Abdul Salam Ali	Fuzzy Control of Packed Distillation	PhD, Dropped
24	Omar F. Lutfy	GA of Grain Driers	PhD, Completed
25	Hasmah mansor	QFT Control of a Nonlinear Process	PhD, Completed
26	Amir Hussein	Unchattered Sliding Mode Control	PhD, Completed
27	Hazem I Ali	Control of Pneumatic Actuator	PhD, Completed Dec 2010
28	Ali Rafieishahemabadi	Harmony Search Optimisation for Control	PhD, Completed
29	Amir Moazen Zadeh	Optimal Control of Discontinues System	PhD, Dropped
30	Dhia Uddin M. Salih	Wavelet NN-based MPC	PhD, Completed, Jul 2015
31	Mohammed Ahmed	Precision Control of Large Antenna under Disturbance	PhD, Dropped
32	Norsyahid Mohd Azam	Temperature Control Under Load Disturbance Effect in Pre-Polymerization Process	PhD, 2013 tangguh
33	Elya Mohd Noor	Extended Hihh Gain Output Feedback Control of a Rotary UAV under Presence of External Wind Disturbance	PhD, 2014
34	Norhana Mamat	Inverse Model Control of a Bioreactor	PhD, 2015
35	Mehrullah Soomro	Communication and control of autonomous underwater vehicles AUVs.	PhD, 2017

12.2 Postgraduate Student : Co-supervisor

No	Name	Title of Project	Status
1	M. E. Salim	Development of an Automatic Fan Control for Electric Vehicle Passenger Cabin	MSc, Completed
2	M. I. H. Nour	Smart Battery Charger	MSc, Completed
3	Mohd Amir Abas	Pulse Width Modulation Inverter for Electric Drive Train Applications	MSc, Completed
4	Mohd Amran Mohd Radzi	Software Development and Interfacing for on-line Energy Monitoring and Control System through the Web	MSc, Completed
5	Siti Mariam Shafie	Remote Monitoring and Control Using Embedded Web Server	MSc, Completed
6	Omar Bennanes	Control AC Drives with Fuzzy Logic	MSc, Completed
7	Hussain Sabri Atthab	Harmonic Injection Method for Single Switch Thre phase DCM Boost Rectifier	MSc, Completed
8	Asnor Juraiza	Autonomous Robotic	MSc, Completed
9	Mohamad Saufi Kassim	Design and Development of Unmanned Tractors as an Automated Platform for Agricultural Operations	MSc, Completed

10	Zurina Hanapi	Remote Control and Monitoring on Distributed Data Acquisition Via Internet	MSc, Completed
11	Kwa Chin Kok	Haptic Control with Virtual Simulation	MSc, Completed
12	Zulkifli Abdul Rahman	Single Chip MC68HC11 Interfacing with Speed Trap Application via Internet	MSc, Completed
13	Ouhocine Sherif	LEO Satellite Control	MSc, Completed
14	Syafrizan Mohamad	Video Streaming in Linux Thin Client /Server Computing	MSc, Terminated
15	Azlinda Abu Bakar	Development of Biosensor for Detecting Organic Contaminants	MSc, Terminated
16	Rohizan Liza	Multiprobe Sensor for Water Quality Monitoring	MSc, Completed
17	Wan Suhaimizan Wan Zaki	Thick Film Sensor	MSc, Completed
18	Sulaiman Abdullah	Water Blending Integrated with Distillation Unit to Meet the Crop Tolerance	PhD, Completed
19	Mohammad Karimadini	Fuzzy-like Controller	MSc, Completed
20	Rizal Mat Jusoh	Application of Vision Target Tracking System for Mobile Robot Navigation	MSc, Completed
21	Mohd Amrallah Mustafa	Hand Gesture Recognition by using PCA	MSc, Completed
22	Amjad Najim Jabir	Iterative Minimum Maximum Exclusive Mean Filter	MSc, Completed
23	Fabian Henry	Automatic Bearing Condition Monitoring System for Monorail	MSc, Terminated
24	Atefah Davari	Parameter Estimation of K-Distribution by using Fuzzy Logic	MSc, Completed
25	Adzliza Salmi Mohamad Azlan	Inverted Pendulum Control	MSc, Terminated
26	Sawsan Kamel Shariah	An Innovative Approach in Determining Water Marking Potrayal Images	PhD, Completed
27	Rakeeb Saeed Kaid	An Automation Calculation of Gestational Age and Due Date by Ultrasound	MSc, Completed
28	Jasronita Jasni	New Technique to Determine Proximity to Voltage Collapse and Maintain the Stability of the Power System	PhD, Completed
29	Mohammad J Kargar	A Framework for Ranking Information Source on Web	PhD, Completed
30	Ali Rafieishahemabadi	Simulation and Implementation of a Variable Rate, PWM Nozzle Valves Chemical Application Control System	MSc, Completed 2008
31	Abdul Halim Ismail	Automated Approach for Oil Palm in vitro shoot classification	MSc, Completed 2010
32	Syed Ali Miratashi	Fast Linear Induction Actuator	PhD, Terminated
33	Lutfi Mohamed Zamseleni	Design and Implementation of First Trip Signal Detection in a Machinery Assembly	MSc, completed

34	Payam Shafiei Bafti	Stability of Adaptive Algorithm for MIMO Systems	MSc, Completed
35	Arash Assad Zadeh Gharah Varan	Design of Profile Controller for a Bioreactor	MSc, Completed
36	Wadhah	Modelling and Control of Multivariable System	MSc, Dropped
37	Wan Mohd Fazli W Mokhtar	Modelling and Control of Pasteurisation Process	MSc, Completed
38	Soroush	Fault Detection of Process Control	MSc, Completed
39	Danial Nakhaeinia	Object avoidance for mobile robot	MSc, Completed
40	Ayman William Hermansson	Chemical Process Control	PhD, Ongoing
41	Dayana Hazwani Mohd Suadi Nata	Assessment on Physiological Effects of Heat Stress among Palm Oil Mill in Tropical Climate Condition	PhD, Ongoing
42	Lim Chee Siang	Psychometric Properties of the Malay Version Chronic Stress Screening Scale (CSSS) among Manufacturing Industry Workers	PhD, Ongoing
43	Azizah Ahmad	Occupational Safety and Health	PhD, Ongoing
44	Nurul Fauzani Jamaluddin	Electromyography Analysis on Muscle Fatigue Analysis	PhD, Viva
45	Aiyelabowo O. P.	Power Line Carrier	PhD, Ongoing
46	Hairul Nazmin Nasruddin	NOx Emission Modelling From Industrial Steam Boilers	PhD, Ongoing
47	Nor Arymaswati Abdullah	Self-tuning of an Interval Type-2 Fuzzy Controller for Process Control Rig	PhD, Ongoing
48	Ali Hussein Humod	Soft-sensor Development for process control	PhD, Ongoing
49	Yasir Mahmood Abdulah Alkubaisi	Energy Harvesting through multilevel parking	PhD, Ongoing
50	Radix Srazhidinoz	Wiener-Hammerstein Nonlinear FxIms Algorithm for Active Noise Control	MSc, Completed

12.3 Undergraduate Student

1	Azlina bt. Abdul Wahab	Model Reference Adaptive Control of Bilinear Distillation Column	Nov. 97- Aug. 98
2	Azura bt. Che Soh	Nonlinear level Control of a Spherical Accumulator	Nov. 97- Aug. 98
3	Dalina bt. Udin	Optimal Adaptive Control of Reactor	Nov. 97- Aug. 98
4	Heidi Azrul bt. Arshad	Adaptive Control of Position DC Servo	Nov. 97- Aug. 98
5	Norsuzila bt. Yaacob	Adaptive Online Riccati Optimal Control of Nonlinear Distillation Column	Nov. 97- Aug. 98
6	Norazlin bt. Ibrahim	Adaptive Online Riccati Optimal Control of Nonlinear Distillation Column	May 97- March 98
7	Rafidah bt. Abdul Aziz	Model Reference Adaptive Control of Bilinear Distillation Column	May 97- March 98

8	Shahrul b. Ahmad Shah	Modelling and Simulation of Distillation Column as a basis for application of Composition Control	May 97- March 98
9	Yap Thiah Huat	Temperature Control Kit	May 98-May 99
10	Kaety Abdul Kadir	Level Control Kit	May 98-May 99
11	Roslan Jusoh	Control of Traffic Light Using PLC	May 98-May 99
12	Chong Heng Wah	Signal Processing on MATLAB	May 98-May 99
13	Tan Fu Tat	Control System Design on MATLAB	May 98-May 99
14	Lee Kok Boon	Temperature Kit	May 98-May 99
15	Chang Wan Hong	Wireless Remote Monitoring and Control System	May 98-May 99
16	Siti Khairani Kamaruddin	Filter Design	May 99 – May 2000
17	Azhari Hassan	Level Control System	May 99 – May 2000
18	Mohd Azhari Makhtar	Wireless Remote Monitoring and Control System (transmitter)	May 99 – May 2000
19	Muhammad Fadzlee Pardan	Intelligent Shower System	May 99 – May 2000
20	Mohd Amrallah Mustafa	Continuous Water Level Control	May 99 – May 2000
21	Sharudin Mohd Amin	Optimal Control of DC Servo	May 99 – May 2000
22	Noni Nadiah Md Yusoff	Auto Dialing Traffic Light Fault Monitoring System	May 99 – May 2000
23	Lim Chong Seng	Automated Book Case	May 99 – May 2000
24	A. Rahmad Ngah	Stress Monitoring of Bridge Structure	May 99 – May 2000
25	Mohd Hafiz Mohd Salleh	Automatic Wash Plant	May 99 – May 2000
26	Azlina Ali	Stress Measurement System	May 99 – May 2000
27	Mohd Fahrurrazi Abu Mansor	Wireless Remote Monitoring and Control System (Receiver)	May 99 – May 2000
28	Yusmaria Mohd Yusoff	Microcontroller-based Voltage Drop Recording System	Nov. 99 – Sept. 2000
29	Zainal Abidin Daud	Traffic Light Control using PLC	Nov. 99 – Sept. 2000
30	Asmadi Mamat	Digital PID	Nov. 99 – Sept. 2000
31	Mohamed Supian Desa	Automatic Train Washing Station	Mei 2000-Apr 2001
32	Aznida Kamaruddin	Process Control System Design	Mei 2000-Apr 2001
33	Kamaruddin Mohamad	GUI-based Control System Design	Mei 2000-Apr 2001
34	Norazilah Abdullah	GUI Signal Processing Courseware	Nov 2000-Okt 2001
35	Anita Rahayu	Optimal Speed Control of DC Motor	Nov 2000-Okt 2001
36	Nolida Yussup	Satellite Attitude Control	Nov 2000-Okt 2001
37	Marcel Jumat	Control of Water Treatment Plant	Nov 2000-Okt 2001
38	Rohaiza Baharom	Optimal Control of Satellite Attitude	Nov 2000-Okt 2001
39	Hafizuriah Hashim	Web-based Final Year Project database	Nov 2000-Okt 2001
40	Salihin Baharum	Thermal Process Control	May 2001 – April 2002
41	Barry Law	Satellite Control	Nov. 2001- Okt. 2002

42	Mohd Zakree Adnan	Remote Monitoring System	Nov. 2001- Okt. 2002
43	Jamaluddin Ismail	Voltmeter Digital Menggunakan Pengawalmikro	Nov. 2001- Okt. 2002
44	Loo Hoi Hin	Traffic Light Fault Detection System	Nov. 2001- Okt. 2002
45	Mohd Effendy Yaacob	PH Control using Fuzzy Logic	May 2002-April 2003
46	Mohd Hassan Isa	Fuzzy Logic Speed Control of DC Motor	May 2002-April 2003
47	Mohd Azmi Ibrahim	Fuzzy Logic Control of Internal Combustion Engine	May 2002-April 2003
48	Hazliha Kassim	Embedded Digital PID Controller	May 2002-April 2003
49	Mohd Khairie Kemat	Digital IC Tester using x-PC	May 2002-April 2003
50	Ahmad Nezam Jantan	Fuzzy Control of Internal Combustion Engine	May 2003 – April 2004
51	Khor Wooi Chun	Fuzzy Control of PH in Waste Water Treatment Plant	May 2003 – April 2004
52	Nor Hisham Ibrahim	<i>Pesona P16 Fuzzy Controller</i>	May 2004 – April 2005
53	Salwa Izani Kamarzaman	<i>Load Flow Analysis using NN</i>	May 2004 – April 2005
54	Norasliza Zainor Abidin	<i>Object Tracking</i>	Starting May 2005
55	Shazwani Salehuddin	<i>Fuzzy Control of CSTR</i>	Starting May 2005
56	Yusrizal Ellyus	<i>Heat Removing System for Car Interior</i>	Starting May 2005
57	Isham Isa	<i>DC Servo Control for Robot Manipulator</i>	Starting May 2005
58	Surina Mat Suboh	<i>xPC Fuzzy Control of DC Servo</i>	Starting May 2005
59	Mohd Azhar Maizan	<i>xPC Classical Control of DC Motor</i>	Starting May 2005
60	Mohd Azrul Afendi Musa	<i>Remote Train Signalling</i>	2006-2007
61	Lim Ban Seng	<i>Autonomous Mobile Robot</i>	2006-2007
62	Lim Hue Huey	<i>xPC Speed Control</i>	2006-2007
63	Khairul Izwan Kamsani	<i>Designing a Servo Positioning Controller for a Video Camera Mounted on an Automous Robot</i>	2006-2007
64	Ooi Kim Shuan	<i>Standalone xPC Speed Control</i>	2007-2008
65	Mohd Shafiq Rosli	<i>Remote Train Signalling using RF Signal</i>	2007-2008
66	Mohd Izwan Mohd Basri	<i>Temperature Control of Grain Dryer</i>	2007-2008
67	Faradilla Azmi	<i>Signalling for Safe Crossing</i>	2007-2008
68	Adrian Alfonso	<i>Grain Dryes Control</i>	2008-2009
69	Mohd Roshahmuni	<i>Modelling and Control of Chemical Processes</i>	2008-2009
70	Yeo Joo Kiat	<i>Train Signalling System</i>	2008-2009
71	Nurul Hakimi Nordin	<i>Control of Distillation Column</i>	2009-2010
72	Aini Azlin M. Yassin	<i>Pneumatic Actuator System</i>	2009-2010
73	Zaimira	<i>Control of Grain Dryer</i>	2009-2010
74	Ameer Hamzah	<i>Control of Induction Motor using PD Fuzzy-like Algorithm</i>	2010-2011

75	Atikah Misngan	<i>Continuous Control of a/c for energy saving mode</i>	2012-2013
76	Siti Nur Zulaikha Mat Nazir	<i>Control of Hybrid RE</i>	2014-2015
77	Mohd Farid Mokhtar	<i>Sun Tracking Control of Solar Panel</i>	2014-2015
78	Mohamad Ikhwan Faiz B Yahya	<i>Smart Home over Smartphone</i>	2016-2017
79	Madiyah Bt Abdul Nasir	<i>Bio-starter for vehicle</i>	2016-2017

13. Publications

Scopus ID : 25031696200
H-Index : 7
Journal : 33 cited (ISI/SCOPUS/IEEE Explorer), 24 Non-cited (Refereed)
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13.7 Reports and other publications

1. Editor, Disaster Management Plan for UPM, Penerbit UPM, 2011.
2. Chief Editor, Health and Safety : Code of Practice, Faculty of Engineering, 2nd Edition, 2008.
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13.8 Thesis/Dessertation

1. **Samsul Bahari Mohd Noor**, Development of an optimal adaptive control technique for distillation and chemical processes based on analytical models, Ph.D Thesis, University of Sheffield Publisher, ASIN: B001ABLJW6, 1996.
2. **Mohd Noor, S. B.**, "Development of Adaptive Control for Dynamic System as a First Stage for Fatigue Investigation", MSc Desertation, University of Sheffield, UK, Sept. 1992.

14. Referee/Reviewer of Technical Papers for Journals and Conferences:

- Member of Technical Program Committee for International Conference in Electrical and Electronic Technology 2016 (ICEETech 2016)
- Reviewer, Asian Control Conference, 2013, 2015.
- Nonlinear PID Controller with Tracking Differentiator in High Precision Servo Systems – Transaction of the Institute of Measurement and Control (IF 0.500)
- Fuzzy Sliding Mode Controller with Gain Auto-tuning for Unsymmetric Input Temperature Control System – Transaction of the Institute of Measurement and Control (IF 0.500)
- Robust active chatter control in the high-speed milling process – 2010 American Control Conference [Scopus]
- Reviewer for SCORed 2009, CEET2010, APSAEM2010, 2010 IEEE Symposium on Industrial Electronics and Applications, AMS2010, ICIAS2010,
- Design of Robust Energy Control for Cart - Inverted Pendulum - International Journal of Engineering and Technology (IJET)
- Nonlinear Energy Control of a Cart-Inverted Pendulum – ElektriKA, UTM
- Image Hearing with Distance Information – an Aid for Blind Navigation, IEM Journal.
- Application of Integral Sliding Mode Control to a 2 DOF Direct Drive Robot Arm, Jurnal ElektriKA, IEEE affiliated journal, UTM.
- A Robust Controller Design for Performance Improvement of the Active Suspension Systems, Jurnal ElektriKA, IEEE affiliated journal.
- Initial Result on Monitoring Liquid/Gas Flow Using Ultrasonic Tomography, Jurnal Teknologi D, Universiti Teknologi Malaysia.
- Buku *Instrumentasi*, Penerbit UTM, Skudai
- Initial Result on Monitoring Liquid/Gas Flow Using Ultrasonic Tomography, Jurnal Teknologi D, Universiti Teknologi Malaysia.
- Editor/Reviewer for World Engineering Congress 2002 (Control Engineering Section)
- Editor/Reviewer for World Engineering Congress 1999 (Control Engineering Section)

15. Expert/Specialist Panel

- Evaluator for FRGS, RUGS, E-Science
- Member, Weather Satellite for ANGKASA.
- Chairman, Technical Committee on Audio, Video, IT and Communication Equipment.
- Member, Technical Committee on Safety of Audio, Video and IT Equipments
- Chairman, Working Group on Information Technology Equipment – Safety
- Member, Working group on Analog Measurement
- Chairman, Expert Panel, IGS Technical Proposal, Gyro Stabilized Precision Positioner, MOSTE Putrajaya.

- Member, Expert Panel, IGS Technical Proposal, Integrated Off-loader for Semiconductor Chip, MOSTE, Putrajaya.
- Panel Member, NOSS for Process Control, MLVK, Ministry of Human Resource.
- Panel member, Lembaga Akreditasi Negara (Kolej Selatan, JB)
- Panel chairman, Lembaga Akreditasi Negara (Kolej Methodist, KL)
- Panel, Lembaga Akreditasi Negara (Federal Institute of Technology)
- Panel member, Lembaga Akreditasi Negara (Kolej Kojadi, KL)
- External Verifier, German Malaysian Institute, June 2003, Dec. 2003, June 2004, Dec 2005, June, 2006, June 2008, Jan. 2009.

16. Theses Examination

16.1 External Examiner

PhD : 10

MSc : 24

1. Lim Chan Hin, MSc Electrical Engineering, UTM, Feb 2002
2. Lim Cheng Siong, MSc, UTM, May 2004
3. Ng Wei Nyap, MSc, UTM, 2005
4. Lau Meng Cheng, Design and Implementation of the Real-Time System for Multivariate Statistical Process Control, MSc, UKM , 2005
5. Tarig Faisal Ibrahim, MSc, UIAM, 2005
6. Low Sio Kun, MSc, UNITEN, 2006
7. Mohd. faisal Ibrahim, MSc, UTM, 2006
8. Yaw Wee Lee, MSc, UTM, 2007
9. Yasser Radwan Hawari, Design and Development of Neural-Fuzzy Based Microchip Inspection System, MS, UIAM, 2008
10. Mohd Hezri Fazalul Rahiman, System Identification of Essential Oil Extraction System, PhD, UiTM, 2009
11. Ahmad Nor Alifa Abd Razap, Simulation and Experimental Studies on Closed-Loop System Identification, MSc, UTM, 2010
12. Norhalimatul Sadiyah Hj Kamaruddin, Flow Regime of Particles Conveying Pneumatic Pipeline using Electrical Charge Tomography and Fuzzy Logic Technique, Msc, UTM, 2010
13. Rozita Mustafa, Novel Oil Palm Tissue Culture Weight Measurement System Using Rule-Based System , MSc, UNITEN, 2010
14. Ala Eldin Abdallah Awouda Adam, PID Controller Autotuning using Grey Prediction, PhD, UTM, 2011
15. R. Subramanian, Soft Computing Approach For Design Optimization of Certain Electric Motors for Industrial and Agricultural Applications, PhD, Anna University of Technology, India, 2012
16. Norafizah Abas, Development of an Autonomous Quadrotor, MSc, UIAM 2012
17. Mohd Fauzi Nor Shah, Multiobjective Optimization of MIMO Control System using Surrogate Modelling, MSc, UTM 2012
18. Noraznafulsima Khamshah, Optimization of Hot Wire Mass Airflow Sensor by using Fuzzy Temperature Compensation Scheme, MSc, UMP 2013
19. Zuraida Muhammad, Self Tuning Fuzzy Logic Control of Induction Based Steam Distillation System, PhD, UiTM, 2014
20. Msc, UIA
21. Azlin Sharima Abdul Latif, Kesan Penggunaan Peruntukan Spektrum Dinamik Didalam Rangkaian Radio Kognitif, MSc, UKM
22. Mashitah Razali, SINGULARLY PERTUBATION METHOD APPLIED TO MULTIVARIABLE PID CONTROL MSc, UTM, 2014
23. Norhazimi Hamzah, PhD, UTM, Apr. 2015
24. Budiman Azzali Basir, Control of Takagi-Sugeno Fuzzy Model Systems via Fuzzy Sliding Mode Control, PhD, UTM, Nov 2015

25. Syed Rizal Alfam Wan Alwi, Ultrasonic sensors Configuration for Blind People Mobile Robot Navigation System, MSc, UTM, Nov 2015
26. Nurfatihah Syalwiyah Rosli, Neural Network Prediction Model for Field Instrument in Gas Metering Systems using Particle Swarm Optimization, MSc, UTP, Dec 2015
27. Mohd Bazli Mokhar, Adaptive Sliding Mode Control Scheme for an Autonomous Underwater Vehicle with Dynamic Region Based Approach, MSc, UTM, Nov 2015
28. Mohd Saifizi Saidon, Black-box Modelling and Adaptive Control of Hybrid Thermoelectric Refrigerator System, PhD, UNIMAP, Jan 2016
29. ABDULRAHMAN A. A. EMHEMED, PREDICTIVE CONTROL STRATEGY USING SELF IDENTIFICATION MATRIX TECHNIQUE, PhD, UTM, April 2016
30. Nurul Afiqah Bt Zainal, Investigation of MPPT for active cooling PV Panel using Fuzzy Logic Controller, Msc, UMP, Jul 2017
31. Nur Shuhada Bt Mahsahiron, Development of S-PWM Voltage Source Inverter for Induction Motor Drive, Msc, UMP, Jul 2017
32. Mohd Ridzuan Johary, M.Phil, MJIT-UTM, Aug. 2016
33. Naizatul Shima Mohd Fadzil, Online Monitoring for Gas/Liquid Mixture and Bubbles Measurement using Optical Tomography, PhD, Ogos 2016.
34. Syed Rizal Alfam Wan Alwi, Ultrasonic sensors Configuration for Blind People Mobile Robot Navigation System, MSc (Resubmitted), UTM, Nov 2016
35. Ruhaizan Ismail, Early Screening of Leukemia Using Near-infrared, MSc, UTM, Jan 2017.
36. Auwalu Muhammad Abdullahi, A Combined Adaptive Input Command Shaping with Integral Sliding Mode for Robust Control of Overhead Crane, PhD, UTM, Julai 2017.
37. Nor Hazadura Bt Hamzah, State Estimation in Gyroless Satellite using Nonlinear Estimation Algorithm, PhD, UniMAP, November 2017.
38. Amirah 'Aisha Bt Badrul Hisham, Quantification of Human Driving Skill for Human Adaptive Mechatronic Applications, Phd, UTM, Jun 2018.

16.2 Internal Examiner, UPM

PhD : 14

MSc : 31

Chairman of viva : 9 PhD, 17 MSc.

17. Conference/Seminar/Workshop attended

1. Participant, Active Learning Workshop, Bangi, June 2017
2. Reviewer, Session Chair, Seminar Pembangunan Modal Insan, Bangi, Malaysia, 2015
3. Reviewer, Session Chair, Asian Control Conference (ASCC 2015), Kota Kinabalu, Malaysia, 2015
4. Reviewer, Session Chair, Seminar Pembangunan Modal Insan, Bangi, Malaysia, 2014
5. Reviewer and presenter, Asian Control Conference (ASCC2013), Istanbul Turkey, 2013
6. Reviewer, Session Chair and presenter, Conference of Electrical and Electronic Technology, Kuching, Sarawak in conjunction with World Engineering Congress, 2-4 August 2010
7. Technical Committee, SCORED 2009
8. International Advisory Committees, Session Chair, Presenter, 2nd International Conference on Control Instrumentation and Mechatronics Engineering (CIM09), Melaka, 2-3 June 2009
9. Participant and Students Accompanist, 26th Conference of Asean Federation of Engineering Organisations (CAFEO), Bangkok, 25-29 Nov. 2008.

10. Participant, Seminar Tadbir Urus yang Baik, Equatorial Bangi, 9 Julai 2007.
11. Participant, Workshop on Designing Courses for OBE, UTM, KL, 5 Dec 2005.
12. Participant, Workshop on Learning Outcomes Initiatives I, Pan Pacific, KLIA, 21-22 Dec 2005.
13. Presenter, IEEE TENCON 2004, Chiang Mai, Thailand, 21-24 November 2004.
14. Participant, International Conference on Artificial Intelligent in Engineering and Technology (ICAIET) 2004, 3 –5 August, Kota Kinabalu, Sabah.
15. Session Chair, Student Conference on Research and Development (SCOREd) 2003, 25-26 August, Putrajaya.
16. Participant, Artificial Intelligent Application in Industry (AIAI) 2003, 24-25 June, KL
17. Participant, Bengkel Pengurusan Makmal, Faculty of Engineering, 26-27 May, 2003.
18. Invited Speaker, MATLAB Education Seminar (Teaching Control Using MATLAB), UIAM, Gombak, 18 June 2003.
19. Presenter and Member of Technical Committee, World Engineering Congress 2002, Kuching Sarawak, 22-24 July 2002
20. Presenter and Member of Organising Committee, UPM Engineering Research Seminar and Exhibition, UPM, 2-3 October 2001.
21. Participant, ICT Conference for the Universities, Awana Porto Malai, Langkawi, 28-30 September 2001.
22. Participant, International Advanced Technology Forum, Concorde Hotel, Shah Alam, 7-8 November 2000.
23. Invited Speaker, MATLAB-UKM Info Day, UKM, 22 May 2000
24. Participant, Course on How To Be a Good Teacher, Fakulti Pengajian Pendidikan, 3-5 Mac 1999.
25. Member of Organising Committee, Electrical and Electronic Engineering Technical Conference in conjunction with World Engineering Congress (WEC 99), Sheraton Hotel, Subang.
26. Participant, Seminar on DSP Educator, 3 Sept. 1998, Texas Instrument, KL.
27. Participant, Bengkel Penilaian Kelulusan, Standard Minimum dan Perakuan Akreditasi, Lembaga Akreditasi Negara, Petaling Jaya, 17 Feb. 1998.
28. Participant, Seminar “ASEAN Science and Technology Vision : Towards Technologically Competent ASEAN”, Legend Hotel, Kuala Lumpur, 8-10 Dec. 1997.
29. Participant, Bengkel Pemahaman Kaunseling dan Psikoterapi, IDEAL, UPM, 29 Oct. 1997
30. Participant, Seminar on “Real-Time Systems : Issues and Technologies”, Dept. of Computer Science, UPM, 27 March 1997
31. Member of organising Committee, 2nd National Electrical Power Engineering Conference, Universiti Teknologi Malaysia, Kuala Lumpur, 11-12 Jun. 1991

18. Courses and Special Training

1. Participant, Safety Officer Training, NIOSH, Bangi, Malaysia. (Passed the professional exam)
2. Participant, Cisco Certified Network Associate (Passed the professional exam)
3. Participant, Project Management, EC-Council (Passed the professional exam)
4. Participant, Basic Occupational First Aid and CPR, 17-18 March 2008 (Passed the exam)
5. Participant, ERP, Akademi Bomba dan Penyelamat Malaysia, 2010
6. Participant, Introduction to Design of Embedded System (ATMEL Microcontroller), 12-13 Jan 2009.
7. Participant, A Practical Approach to Process Instrumentation, 25-26 Aug. 2008
8. Participant, Workshop on Accelerate Embedded System Development with SIMULINK, UM, 21 Nov. 2007
9. Participant, Workshop on Learning Outcomes Initiative I & II, 12-15 Dec. 2006

10. Participant, Bengkel Penyediaan OBE, Corus Paradise, PD, 27-29 Nov. 2006
11. Participant, Kursus Asas Pasukan Keselamatan kebakaran, 4-8 Sept. 2006.
12. Participant, Effective College Teaching, UTM Skudai, 14 – 15 Dec. 2005
13. Participant, Workshop on Designing Courses for OBE, UTM Semarak, 5 Dec. 2005
14. Participant, Workshop on Outcomes Based Education, Hotel Equatorial, Bangi, 24-26 May 2005.
15. Instructor, Fundamentals of MATLAB and SIMULINK, Fakulti Kejuruteraan Kimia, UTM Skudai
16. Instructor, Control System Design using MATLAB and SIMULINK, Fakulti Kejuruteraan Kimia, UTM Skudai
17. Participant, "Training on Calibration and Measurement", by TUV Philippines Inc., City Bayview Hotel, Malacca, 5 – 6 October 2004.
18. Participant, "Programming PIC Micro in C", by Blitzlogic, SIRIM Berhad, 7 – 9 September 2004.
19. Participant, "Neural Networks Fundamentals and Implementation in MATLAB", ActiveMedia, Subang Jaya, 21-22 June 2004.
20. Participant, Advanced Pneumatic Training, Faculty of Engineering, UPM, 21 April 2004.
21. Participant, PLC Training, Faculty of Engineering, UPM, 13 Jan. 2004.
22. Instructor, Basic MATLAB and SIMULINK Course, 11-13 Dec. 2003, KUIITHO.
23. Participant, Kursus Penilaian Tahap Kecekapan, UPM, 27 Oct. – 7 Nov.
24. Instructor, Simulation and Modelling Using MATLAB, Fakulti Kejuruteraan, UPM, 7-8 May 2003
25. Participant, Kursus Kemahiran Kepimpinan, Penyelesaian Masalah dan Membuat Keputusan, Faculty of Engineering, 22-23 Sept. 2003.
26. Instructor, WebEd for Academic Staf, Faculty of Engineering, UPM, 24 May & 24 Oct 2003.
27. Participant, WebEd: Training for Trainer, Faculty of Engineering, UPM, 17 Jan. 2003.
28. Participant, "Intelligent Control using Soft Computing", Park Royal Hotel, KL, 20-22 May 2002
29. Participant, "Implementing and Managing 3COM Network System", Convergence Network, Shah Alam, 17-19 September 2001.
30. Participant, "Structured Cabling", Clipsal, Shah Alam, 27 Mac 2001
31. Participant, "MATLAB Professional Training", Techsource, Kuala Lumpur, 17-20 April 2000
32. Participant, "Safety at Work and First Aid", University of Sheffield, Apr. 1995
33. Participant, "Building Automation", ILSAS Bangi, Jun.1991

19. Extension and Public Services

19.1 Extension Services

1. Committee and Presenter, Kursus Jati Diri dan Kesukarelawanan, 2013, 2014, 2015, 2016, 2017.
2. Presenter, Motivational Talk for Summer Camp, Fakulti Kejuruteraan, 8 December 2006.
3. Chairman, Teambuilding Programme Committee, Faculty of Engineering, 2005 & 2006.
4. Lead Fascilitator, Teambuilding Programmes, Faculty of Engineering, 2005 & 2006.
5. Volunteer, Connecting Telephone Lines, Faculty of Engineering, 2001.
6. Presenter, "Jauhi Kegagalan Kejar Kecemerlangan", Pelajar Baru Kolej Ke Sepuluh UPM, 16 Jun 2002, Unit Perkhidmatan Kaunseling dan Kerjaya HEP, UPM.
7. Presenter, "Kegagalan : Puncanya dan Cara Mengatasinya" at the Leadership Camp, Taman Pertanian Indera Mahkota, Kuantan, Pahang,

8. Presenter, "Gagal untuk Berjaya, Berjaya untuk Gagal" for Program Kampung Akademik, Kg. Paya Luas, Jalan Maran, Temerloh, Pahang
9. Presenter, "Akhlak dan Kepentingannya Dalam Kemelut Hari Ini" at Seminar on 'Akhlak Mulia Asas kecemerlangan' for secondary school students, UKM Bangi, 16 Mar. 1997
10. Presenter, "Akhlak Mulia Umat Sejahtera" for the celebration of Ma'al hijrah and the opening of 'Celik Al-Quran' programme in MRSM Kuantan, 9 May 1997
11. Fascillitator and presenter, "Study Skills" for Muslim University students at University of Sheffield organised by Muslim Student Society, 1994
12. Fascillitator and presenter, "Study Skills" for Muslim University students at Islamic Foundation organised by FOSIS, Markfield, UK, 1993
13. Fascillitator and presenter, "Study Skills" for Muslim University students at University of Newcastle Upon Tyne organised by Muslim Student Society, 1992
14. Fascillitator and presenter, "Study Skills" for Malaysian University students at University of Liverpool organised by Malay Study Circle, 1992
15. Felo, Kolej Kediaman ke 6, UPM, 1991

19.2 Public Services

1. Head, Biro Pengajian Tinggi, HALUAN Malaysia, 2017-
2. Secretary, Biro Pengajian Tinggi, HALUAN Malaysia, 2015-2017
3. Secretary, Biro Pengajian Tinggi, HALUAN Putrajaya, 2014-
4. Chairman, Surau Committee, Faculty of Engineering, 2016
5. Chairman, Sports and Social Club, Faculty of Engineering, UPM (2008-2010)
6. Chairman, Persatuan Penduduk Taman Ramal Ros, Kajang (2007-present)
7. Member, Persatuan Pegawai Akademik, UPM (1991 – present)
8. Manager, Football Team, Faculty of Engineering (2001 – 2004)
9. Committee Member of 'Kumpulan Pakar Pendidikan ANSARA' (Nov. 1997 – 2000)

19.3 Extra Curricular Activities

1. Vice Chairman, Welcoming Committee for new Malaysian students 1993-1994 at University of Sheffield.
2. Secretary, Sheffield University Malaysian Students Association (1992-1993)
3. Chairman, University of Sheffield Muslim Student Society (1991-1993)
4. Chairman (Lance Corporal) , Persatuan Bulan Sabit Merah Malaysia, MRSM Kuantan Charter (1984)
5. Vice Chairman, Geography Society, MRSM Kuantan, 1984

