



## UNIVERSITI SULTAN ZAINAL ABIDIN

**DR. HAFIZAN BIN JUAHIR**  
*Associate Professor/Director*

East Coast Environmental Research Institute (ESERI)

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### Curriculum Vitae

#### (A) Personal

- Age : 44 years old
- Gender : Male
- Race : Malay
- Nationality : Malaysian
- Date and Place of Birth: 29 January 1971/Johor
- Marital Status: Married
- Permanent address: No 24, Jalan Damai Rasa 10, Alam Damai, 56000 Kuala Lumpur.
- Current Position: Director of East Coast Environmental Research Institute (ESERI), Universiti Sultan Zainal Abidin.
- Area of Experties: Chemometrics/Environmetrics, Forensics Chemistry, Data Mining Techniques, Environmental Modelling and Quality Engineering (Six-sigma)



#### (B) Education

- Ph.D (Chemometrics), Universiti Malaya, Kuala Lumpur, Malaysia (2009)
- M.Sc. (Quality and Productivity Improvement), Universiti Kebangsaan Malaysia (1999)
- B.Sc.(Hons) Chemistry, Universiti Kebangsaan Malaysia (1996)
- Matriculation, Matriculation Center of Universiti Kebangsaan Malaysia-Kementerian Pendidikan Malaysia, Kuala Pilah (1989-1990)
- Malaysian Certificate of Education (SPM), Methodist Boys School, Kuala Lumpur (1988)
- Lower Certificate of Education (SRP), Sek. Men. Dato' Bentara Dalam, Segamat, Johor (1986)

#### (C) Professional Societies

- *Member* | Academic Officer Society, Universiti Putra Malaysia since 2012-2013
- *Member* | Japanese Society Promotion of Science (JSPS) since 2004 - present
- *Member* | Malaysian Water Partnership (MyWP) since 2004 - present
- *Member* | Malaysian Hydrological Society (MHS) since 2001 - present
- *Member* | Institute of Statistic Malaysia, 2000 – present

#### (D) Akademik and Other Relevant Appointments/Working Experience

- **Director/Associate Professor**, East Coast Environmental Research Institute (ESERI), Universiti Sultan Zainal Abidin (UniSZA), 2013 – present.
- **Head of Environmental Modelling Unit**, Environmental Forensics Research Center, Faculty of Environmental Studies, UPM, 2012 - 2013

- **Senior Lecturer**, Department of Environmental Sciences, Faculty of Environmental Studies, UPM since 2009 - 2013
- **Tutor**, Department of Environmental Sciences, Faculty of Environmental Studies, UPM since 2005 - 2009
- **Fellow**, Kolej Kediaman Keempat, Universiti Putra Malaysia since 2006 - 2008
- **Plant Manager**, Oil Sludge Processing Division, Spatialworks Sdn. Bhd., Kemaman, Terengganu since 2002 - 2005
- **Research Fellow**, LESTARI, Universiti Kebangsaan Malaysia 2003 - 2004
- **QA/QC Chemist**, Zuellig Chemicals (M) Sdn. Bhd., Port Klang, Selangor since 1997 - 2000.
- **QC Chemist**, Malayan Pharmaceutical Factory, Petaling Jaya, Selangor since 1996 - 1997

#### (E) Awards

- High Impact Journal Publications Incentive 2014 from Universiti Sultan Zainal Abidin 2015
- Excellence Service Certificate 2014 from Universiti Sultan Zainal Abidin 2015
- Excellence Service Award 2012 from Universiti Putra Malaysia 2013
- High Impact Journal Publication Incentive 2012 from Universiti Putra Malaysia
- Excellence Service Award 2011 from Universiti Putra Malaysia 2012
- High Impact Journal Publication Incentive, Universiti Putra Malaysia 2012
- High Impact Journal Publications Incentive 2011 from Universiti Putra Malaysia
- High Impact Journal Publication Incentive, Universiti Putra Malaysia 2011
- Excellence Service Award 2010 from Universiti Putra Malaysia 2011
- High Impact Journal Publication Incentive, Universiti Putra Malaysia 2010
- Excellence Service Award 2009 from Universiti Putra Malaysia 2010
- Excellence Service Award 2007 from Universiti Putra Malaysia 2008
- Awarded SLAI Scheme from Ministry of Higher Education (MOHE), Malaysia, 2008
- Travel Grant Award for "Workshop on Compliance with RoHS Regulations and Impact on International Exports" sponsored by the Asian Productivity Organization and implemented by the SPRING Singapore from 1 to 3 August 2007.
- Excellence Service Award 2006 from Universiti Putra Malaysia 2007
- Excellence Service Award 2005 from Universiti Putra Malaysia 2006
- Travel Grant Award for "International Conference on Best Eco-practices" sponsored by the Asian Productivity Organization and implemented by the SPRING Singapore from 31 October to 2 November 2006.
- National Science Fellowship (NSF) from Ministry of Science, Technology and Environment, Malaysia since 2000 - 2004

#### (F) Recognition

##### **Research and Innovation**

- **Silver Medal**, ITEX 2015
- **Gold Medal**, MPI 2015, UniSZA
- **Bronze Medal**, MPI 2015, UniSZA
- **Bronze Medal**, MPI2014, UniSZA,
- **Silver Medal**, ITEX 2011 - International
- **Gold Medal**, Pameran Rekacipta, Penyelidikan dan Inovasi, 2011 (PRPI 11) Universiti Putra Malaysia
- **Silver Medal**, Pameran Rekacipta, Penyelidikan dan Inovasi, 2011 (PRPI 11) Universiti Putra Malaysia

- **Gold Medal**, Pameran Rekacipta, Penyelidikan dan Inovasi, 2010 (PRPI 10) Universiti Putra Malaysia
- **Silver Medal**, Pameran Rekacipta, Penyelidikan dan Inovasi, 2010 (PRPI 10) Universiti Putra Malaysia
- **Bronze Medal**, Malaysian Technology Expo, 2009
- **Silver Medal**, Pameran Rekacipta, Penyelidikan dan Inovasi, 2007 (PRPI 7) Universiti Putra Malaysia
- **Silver Medal**, Pameran Rekacipta, Penyelidikan dan Inovasi, 2006 (PRPI 6) Universiti Putra Malaysia
- **Bronze Medal**, Pameran Rekacipta, Penyelidikan dan Inovasi, 2006 (PRPI 6) Universiti Putra Malaysia
- **Gold Medal**, Expo Penyelidikan dan Inovasi, UKM, 2005.
- **Silver Medal**, Expo Science, Technology and Innovation - National, 2004
- **Bronze Medal**, Expo Science, Technology and Innovation - National, 2004
- **Gold Medal**, Expo Penyelidikan dan Inovasi, UKM, 2004.
- **Silver Medal**, Expo Penyelidikan dan Inovasi, UKM, 2004.
- **Gold Medal**, Expo Penyelidikan dan Inovasi, UKM, 2003.

#### **Appearance in Newspaper and TV**

- **TV Alhijrah/TV9/Astro Awani** – National, “Risiko Penyakit Bawaan Air Ketika Banjir”. 17 November 2014.
- **Kosmo** – Nasional, “Sumber air mentah Sungai Langat semakin susut”. 24 June 2014
- **Kosmo** – Nasional, “Kualiti air pada tahap serius-Pakar”. 12 February 2014.
- **Berita TV9** - Nasional, "Krisis Air Selangor". 25th January 2013.
- **Bernama TV** - Jurnal Bernama, "ESPER Penyelidik Hutan Belantara". 23 January 2013
- **Berita Harian** - Nasional, "Forensik alam sekitar: Siasatan forensik menjadi bukti penting untuk menegakkan undang-undang", 3 January 2013.
- **Bernama TV** – Nasional, “Krisis Air”, Expert Panel Hello Malaysia Talk Show . 25th October 2012
- **Buletin Utama TV3** - Nasional, "Sumber Air Bersih Selangor Tercemar". 13th October 2012.
- **Bernama** - Nasional, "Kebanyakan Sungai Di Selangor Tercemar, Ancam Bekalan Air". 11 October 2012.
- **Berita Harian** - Nasional, "Sungai di kawasan Pos Kemar belum tercemar: Kajian forensik buka dimensi baru penyelidikan saintifik kualiti sumber air". 31 December 2012.
- **Sinar Harian** - Nasional, "Kebanyakan sungai di Selangor tercemar, ancaman bekalan air". 11 October 2012.
- **Utusan Malaysia** - Nasional, "Jumlah air sesuai dirawat kurang 25%". 22 August 2012.
- **estidotmy** - Nasional, "Penentu Perubahan Iklim Dunia" published by Ministry of Science, Technology and Innovation (MOSTI). 26 September 2012.
- **The Star Online** - "Selangor rivers polluted". 12 October 2012.  
<http://www.thestar.com.my/News/Nation/2012/10/12/Selangor-rivers-polluted.aspx>
- **New Straits Times** - Nasional, "Expert: Selangor rivers under threat". 11 October 2012.
- **Utusan Malaysia** - Nasional, "Isu Langat 2 jejas imej negara". 24 September 2012.
- **Utusan Malaysia** - Nasional, "Forensik alam sekitar: Cari bukti kukuh bagi menghukum pesalah yang melakukan jenayah alam sekitar". 6 August 2012.
- **Utusan Malaysia** - Nasional, "Kebanyakan sungai di Selangor tercemar". 11 October 2012.
- **Berita Harian** - Nasional, "Kebanyakan sungai di Selangor tercemar". 11 October 2012.
- **Berita Harian** - Sentral, "32 saintis muda: STAR jadi pilihan UPM untuk program penyelidikan". 8 November 2012.

- **Utusan Malaysia** - National, "Kedah dikategorikan sebagai sangat berisiko". 18 December 2012.
- **Berita Harian** - National, "Ekspedisi kumpul data pencerobohan hutan". 21 December 2012.
- **Utusan Malaysia** - National, "Hafizan tekad berubah: Ambil keputusan sambung belajar sehingga Ph.D". 28 January 2011.
- **Dewan Masyarakat** - National, "Pencemaran Sungai: Mencari Titik Penyelesaian". June 2010.
- **Berita Harian** - National, "JAS siasat punca pencemaran". 13 July 2010.
- **Sinar Harian** - Edisi Utara, "JPS tiada kuasa ambil tindakan cemar sungai". 8 February 2010.

(G) **Contributions at International/National/University Level**

**International**

- **Ketua Promosi UniSZA** di Pekanbaru Riau, 18-20 Februari 2014.
- **AJK MOU dan Promosi: INKINDO Riau – UniSZA**, Pekanbaru Riau, Indonesia, 9-11 Februari 2014.
- **Committee Member**, International Conference on Environmental Forensics, Putrajaya, Malaysia, 11–14 November 2013
- **Secretary** Green Matric Ranking of World Universities at UPM level, 2010.

**National**

- **Hakim**, Pertandingan Penyelidikan dan Inovasi, MPI 2015 UniSZA
- **Pakar Rujuk Modul Alam Sekitar Program Cabaran Interaktif Pengguna Kelab Pengguna Sekolah (CIP-KPS) 2015**, Kementerian Perdagangan Dalam Negeri, Koperasi dan Kepenggunaan, Bahagian Gerakan Kepenggunaan. 23 April 2015.
- **Committee Member**, 1st National Conference on Non Point Sources Pollution (NPS2014)- "Consolidating knowledge into practice", 13-14 May 2014. Organized by UTM.
- **Penasihat kepada Penubuhan Institut Penyelidikan Alam Sekitar Pantai Timur (ESERI)** Universiti Sultan Zainal Abidin, Terengganu, 2013.
- **Expert Referee in Statistical Analysis** for Department of Environment Malaysia, 2013.
- **Expert Panel Member for Environment**, Sesi Penggubalan Modul Cabaran Interaktif Pengguna Kelab Pengguna Sekolah Tahun 2013 (CIP KPS 2013), Kementerian Perdagangan Dalam Negeri, Koperasi dan Kepenggunaan, Bahagian Gerakan Kepenggunaan. 14 January - 25 April 2013.
- **Committee Member**, Program Cabaran Interaktif Pengguna Kelab Pengguna Sekolah (CIP KPS 2013) Peringkat Kebangsaan joint organized by UPM and Kementerian Perdagangan Dalam Negeri, Koperasi dan Kepenggunaan, Bahagian Gerakan Kepenggunaan. 23-25 April 2013.
- **Committee Member**, Nobel Laureate's Outreach Camp (NLOC) joint organized by UPM and MARA, 2-5 July 2012
- **Chairman**, 4th 4x4 Scientific Expedition (ESPER-4) - Kenaboi Forest Area, joint organized by Faculty of Environmental Studies, UPM and Department of Forestry, Negeri Sembilan. 2012
- **Chairman**, 5th 4x4 Scientific Expedition (ESPER-5) - Pos Kemar, Perak, organized by Faculty of Environmental Studies, UPM. 2012.
- **Chairman and Facilitator**, Young Environmental Scientist (YES) Program, joint organized by Faculty of Environmental Studies, UPM, Department of Forestry, Negeri Sembilan and Sekolah Tuanku Abdul Rahman (STAR), 2012.
- **Expert Panel**, Program Promosi UPM Ke Sekolah-Sekolah Terpilih Seluruh Negara Tahun 2012 (Sekolah Tuanku Abdul Rahman, Ipoh, Perak). 8 May 2012.

- **Expert Panel Member** - "Study on the Establishment of Marine Quality Index", Department of Environment Malaysia. 2011
- **UPM Representative/Exhibitor** for Public Engagement Program on Climate Change with University, HOTSCIENCE@PETROSAINS, 1-5 November 2011.
- **Chairman**, 3rd 4x4 Scientific Expedition (ESPER-3) - Ulu Slim, Slim River, Perak, joint organized by Faculty of Environmental Studies, UPM and Department of Irrigation and Drainage Kinta and Batang Padang, Perak. 2011
- **Facilitator**, Bayer Young Environmental Envoy (BYEE) - Tanjung Piai National Park, joint organized by Bayer and UPM. 2011.
- **Chairman**, 2<sup>nd</sup> 4x4 Scientific Expedition (ESPER-2) – Taman Negara Johor Selai, joint organized by Faculty of Environmental Studies, UPM and Johor National Park. 2010
- **Joint Chairman**, Sambutan Hari Alam Sekitar Peringkat Daerah Kinta dan Batang Padang, Perak, joint organized by Department of Irrigation and Drainage Kinta dan Batang Padang, and Faculty of Environmental Studies, UPM. 2010.
- **Steering Committee**, Sekolah Lestari Anugerah Alam Sekitar/Department of Environment Malaysia, 2004-2005.
- **Expert Panel**, Promosi Karnival Pendidikan Kerjaya Kolej-Kolej Matrikulasi Kementerian Pelajaran Malaysia dan Kolej MARA 2011 (Kolej Matrikulasi Negeri Sembilan). 2 - 4 December 2011.

#### Universiti Sultan Zainal Abidin

- **Hakim**, Pertandingan Penyelidikan Minggu Pusat Pengajian Siswazah, UniSZA, 2015
- **Senate Member**, Universiti Sultan Zainal Abidin. 1 December 2013-30 November 2015.
- **Penceramah Kursus Metodologi Penyelidikan**, Kursus Metodologi Penyelidikan Semester II Sesi 2014/2015, Pusat Pengajian Siswazah, 22 – 26 Februari 2015.
- **Panel Penilai**, Permohonan Geran Dana Penyelidikan Universiti (DPU) 2015, Pusat Pengurusan Penyelidikan dan Inovasi (CRIM), 22 February 2015.
- **Hakim Pembentangan Kertas Penyelidikan**, Minggu Penyelidikan dan Pertandingan Inovasi 2014 (MPI 14), Pusat Pengurusan Penyelidikan dan Inovasi (CRIM), 16-19 March 2014.

#### Universiti Putra Malaysia

- **Committee Member**, Webpage for Environmental Forensics Research Center (ENFORCE), Faculty of Environmental Studies, UPM. 2013 - 2014.
- **Head of Committee Member**, Publicity on International Conference 2013, Environmental Forensics Research Center, Faculty of Environmental Studies, UPM. 2013.
- **Committee Member**, Review of Final Exam Question for Postgraduate, Second Semester, 2011/2012.
- **Committee Member**, Petugas Pameran Penyelidikan Ekspo Pertanian Sempena Konvokesyen ke-36. 2012
- **Expert Committee Member**, Community Program Year 2012 for Department of Irrigation and Drainage, District of Kinta/Batang Padang, Ipoh, Perak Darul Ridzuan. 2012.
- **Evaluation Panel**, Monitoring of Faculty Research Projects, Faculty of Environmental Studies, UPM. 24 July 2012.
- **Chairman and Panel Member**, Postgraduate Collocium, First Semester 2011/2012. 4-6 June 2012.
- **Head of Envigilator**, Final Examination Second Semester 2011/2012.
- **Committee Member**, Review of Examination Paper for Department of Environmental Sciences, Second Semester 2011/2012.

- **Committee Member**, Petugas Pameran Penyelidikan Ekspo Pertanian Sempena Konvokesyen ke-35. 2011
- **Committee Member**, "Bengkel Penyediaan Dokumen COPPA untuk Program Master Alam Sekitar", Hotel Renaissance, Melaka. 2011.
- **Chairman**, Undergraduate Seminar on Final Year Project (ESC4999B) 2nd Semester 2010/2011, Faculty of Environmental Studies, Universiti Putra Malaysia, 5-7 April 2011.
- **Chairman and Panelist**, Postgraduate Colloquium First Semester 2010/2011, Faculty of Environmental Studies, Universiti Putra Malaysia, 25-28 April 2011.
- **Chairman for Evaluator Panel**, Bachelor Science (Environment and Occupational), Faculty of Medicine and Health Science, UPM. 2011.
- **Chairman**, 3rd 4x4 Scientific Expedition (ESPER-3) - Selai National Park, Johor, organized by Faculty of Environmental Studies, UPM. 2011
- **Moderator**, Final Examination Question for Department of Environmental Sciences, Faculty of Environmental Studies, UPM. 2011.
- **Head of Envigilator**, Final Exam First Semester Session 2011/2012. 2011.
- **Chairman and Panel Member**, Postgraduate Collocium, First Semester 2011/2012. 3-5 January 2011.
- **Committee Member**, Semakan Markah Peperiksaan Akhir Bagi Jabatan Sains Alam Sekitar untuk Semester Kedua Sesi 2010/2011
- **Committee Member**, Review of Final Examination Paper for Department of Environmental Sciences, Second Semester 2010/2011.
- **Chairman**, Seminar on Research Projects in Environment, Department of Environmental Sciences, Faculty of Environmental Studies, UPM. 29 March - 1 April 2010.
- **Committee Member**, Prtugas dan AJK Kecil Promosi Pengajian Siswazah Sempena Konvokesyen UPM Ke-33. 2010.
- **Chairman and Panel Member**, 9th. Posgraduate Collocium, Second Semester 2009/2010. Faculty of Environmental Studies, UPM. 5-8 April 2010.
- **Chairman and Panel Member**, 7th. Environmental Seminar for Final Year Projects, Second Semester 2009/2010. 29 March - 1 April 2010.
- Coordinator, Kumpulan Inovasi dan Kreatif, Faculty of Environmental Studies, UPM. 2010.
- Committee Member, Kumpulan Pakar E-Kandungan Pusat Pembangunan Akademik UPM.2010.
- **Representative** for Department of Environmental Sciences in Quality System Management Committee of Faculty of Environmental Studies. 2010.
- **Coordinator** for Teaching and Research Laboratory and Special Equipment Room, Faculty of Environmental Studies, UPM. 2010.
- **Committee Member**, Jaringan Industri dan Masyarakat Fakulti Pengajian Alam Sekitar since 20010 - present.
- **Chairman and Panelist**, Postgraduate Colloquium First Semester 2009/2010, Faculty of Environmental Studies, Universiti Putra Malaysia, 26-29 October 2009.
- **Committee Member**, 6th Environmental Seminar for Bachelor Environmental Sciences, Department of Environmental Sciences, Faculty of Environmental Studies, UPM.27-30 April 2009.
- **Advisor Fellow**, Editorial and Communication Bureau, Kolej Canselor, UPM, Sesion 2007/2008.
- **Head** for the Development of Chemicals Inventory System, Faculty of Environmental Studies, UPM. 2006 - 2008.
- **Committee Member**, ISO Peringkat Kolej Canselor, UPM. 2007.

#### (H) Teaching Activities

### Graduate (Master and Ph.D) Courses

No.	Code and Name of Courses	Credit Hour	No. of students	Teaching Assessment	Semester/ Academic Year
1.	ESC 5517 Research Design and methodology for Environmental Sciences (Group 1)	3(3+0)	28	4.44/26	2:2012/2013
2.	ESC 5518 Statistical Analysis and Interpretation (Group 1)	3(3+0)	11	4.17/15	2:2012/2013
3.	ESC 5517 Research Design and methodology for Environmental Sciences (Group 1)	3(3+0)	48	4.13/5	1:2012/2013
4.	ESC 5517 Research Design and methodology for Environmental Sciences (Group 2)	3(3+0)	17	4.31/5	1:2012/2013
5.	ESC 5517 Research Design and methodology for Environmental Sciences	3(3+0)	15	4.42/5	2:2011/2012
6.	ESC5518 Statistical Analysis and Interpretation of Environmental Data (Group 1)	3(3+0)	15	4.8/5	2:2011/2012
7.	ESC 5517 Research Design and methodology for Environmental Sciences	3(3+0)	43	4.34/5	1/2011/2012
8.	ESC5518 Statistical Analysis and Interpretation of Environmental Data (Group 1)	3(3+0)	19	4.5/5	1:2011/2012
9.	ESC5518 Statistical Analysis and Interpretation of Environmental Data (Group 2)	3(3+0)	22	4.60/5	1:2011/2012
10.	ESC 5517 Research Design and Methodology for Environmental Sciences (Group 1)	3(3+0)	26	4.35/5	2:2010/2011

11.	ESC5911 Environmental Fieldwork (Group 1)	3(0+3)	44	4.3/5	2:2010/2011
12.	ESC 5517 Research Design and Methodology for Environmental Sciences (Group 1)	3(3+0)	64	4.06/5	1:2010/2011

### Undergraduate Courses

No.	Code and Name of Courses	Credit Hour	No. of students	Teaching Assessment	Semester/ Academic Year
1.	ESC3507 Envirometric	3(2+1)	41	4.75/5	1:2012/2013
2.	EMG3007 Quantitative Method	3(1+2)	36	4.46/5	1:2012/2013
3.	ESC4514 Entrepreneurship for Environment	3(2+1)	66	-	2:2012/2013
4.	ESC4514 Entrepreneurship for Environment	3(2+1)	66	4.4/5	2:2011/2012
5.	EMG3007 Quantitative Method	3(1+2)	33	4.5/5	1:2011/2012
6.	ESC4504 Environmental Modelling	3(2+1)	25	4.7/5	1:2011/2012
7.	ESC3507 Envirometrics	3(2+1)	35	4.55/5	2:2010/2011
8.	EMG3007 Quantitative Method	3(1+2)	37	4.56/5	1:2010/2011
9.	ESC4506 Intelligent Technology for Environment	3(3+0)	23	4.69/5	1:2010/2011
10.	EMG3001 (Group 2) Man and Environment	3(3+0)	36	4.3/5	2:2009/2010
11.	ESC3507 Envirometrics	3(2+1)	23	4.7/5	2:2009/2010

### (I) Supervision of Students

Doctor of Philosophy

No.	Name of Students and Thesis/Project	Title of Institution	Chairman /Member	Status	Graduated (Expected)
3.	<b>Nabeel Mohammad Gazzaz</b> <i>Kinta River water quality and land use pattern recognition and modeling using artificial neural networks.</i>	UPM	Member	Completed	2011
4.	<b>Ananthy Retnam</b> <i>PAHs in cultured oyster and their potential hazard assessment for human consumption.</i>	UPM	Member	Completed	2013
5.	<b>Nor Shahirul Umirah bt. Idris</b> <i>Risk assessment and toxicity testing of</i>	UM	Member	On-going	2014



6.	<i>pesticides in agricultural produce</i> <b>Ku Mohd Kalkausar</b> <i>Diesel Fuel Fingerprinting using Chemometric Techniques</i>	UniSZA	Chairman	On-going	2015
7.	<b>Mohammed Hatta Abd. Karim</b> <i>Spatio-temporal Hydro-geochemical Modelling within Peninsular Malaysia</i>	UniSZA	Chairman	On-going	2015
8.	<b>Manutha Appa Rwoo</b> <i>The Assessment of Capability Water Treatment Plant to Produce Compliance Daily Usage Water Quality using Quality Engineering Techniques</i>	UniSZA	Chairman	On-going	2015
9.	<b>Ahmad Shakir Mohd Saudi</b> <i>Hydrological Data Analysis and Modelling: A Case Study in Malaysia</i>	UniSZA	Chairman	On-going	2015
10.	<b>Azman Azid</b> <i>Air Quality Pattern Recognition Study Using Environmetric Techniques</i>	UniSZA	Chairman	On-going	2015
11.	<b>Adamu Mustapha</b> <i>Spatio-Temporal Variation of Surface Water Quality and Pollution Sources Apportionment Using Environmetrics in Jakara Basin, Northwestern Nigeria</i>	UPM	Member	Completed	2013
12.	<b>Dora Esphylin Jamaluddin</b> <i>Heavy metal in deposited dust of municipal solid waste landfill and its accumulation in children body</i>	UPM	Member	On-going	2016
13.	<b>Zalina Mohd Ali</b> <i>On statistical techniques for development of river water quality index</i>	UPM	Member	On-going	2014
16.	<b>Nurul Hafiza Ab Razak</b> <i>Exposure of Heavy Metal in Drinking Water and Toenail in Klang District, Malaysia</i>	UPM	Member	On-going	2016
17.	<b>Nur Hanis Mohamad Hanapi</b> <i>Aerobic-anaerobic wastewater treatment for Batik Industry at Sg. Hiliran, Terengganu</i>	UniSZA	Chairman	On-going	2017
18.	<b>Che Noraini Che Hasnam</b> <i>Indoor air quality risk assessment and source apportionment</i>	UniSZA	Chairman	On-going	2017
19.	<b>Mohd Saupi Mohd Zin</b> <i>Spatial and temporal risk assessment of point-non point source of pollution on river water quality in Malaysia</i>	UniSZA	Chairman	On-going	2016
20.	<b>Cik Fatimah Nadia Che Hasnam</b> <i>The assessment of an environmental awareness amongst primary school children in Terengganu</i>	UniSZA	Chairman	On-going	2017
21.	<b>Sharifah Hanis Yasmin Sayid Abdullah</b> <i>The development of intelligent</i>	UniSZA	Member	On-going	2017

	<i>biological wastewater treatment</i>				
22.	<b>Nurul Izzati Mohd Ali</b>	UniSZA	Chairman	On-going	2017
23.	<b>Tengku Hanidza Tengku Ismail</b>	UniSZA	Chairman	On-going	2017
24.	<b>Nurul Latiffah</b>	UniSZA	Chairman	On-going	2017
25.	<b>Siti Nor Fazillah Abdullah</b>	UniSZA	Member	On-going	2016
26.	<b>Mohd Saufi Shamsudin</b>	UniSZA	Member	On-going	2017

### Master (MSc)

No.	Name of Students and Title of Thesis/Project	Chairman/Member	Status	Graduated (Expected)
1.	<b>Mohd Fahmi b. Mohd Nasir</b> <i>Analysis of spatial and temporal variation of water quality at Klang River using hydrological trend</i>	Chairman	Completed	2013
2.	<b>Munirah bt Abdul Zali</b> <i>Water quality assessment of Linggi River Basin using environmetric approach.</i>	Chairman	Completed	2013
3.	<b>Mohd Saiful b. Samsudin</b> <i>Risk assessment of surface river water quality using statistical process control techniques.</i>	Chairman	Completed	2014
4.	<b>Doreena Dominick</b> <i>Air quality assessment using environmetric techniques.</i>	Chairman	Completed	2013
5.	<b>Faradiah binti Md. Dali</b> <i>Environmental forensic of spatial and temporal characterization of heavy metal using chemometrics techniques at Langat River, Malaysia</i>	Chairman	Completed	2014
6.	<b>Nur Hazirah bt. Adnan</b> <i>Application of faecal sterol and stanol to investigate sewage pollution in Langat River.</i>	Member	Completed	2012
7.	<b>Nurul Afiqah bt. Mohamad Tahir</b> <i>Polycyclic aromatic hydrocarbon (PAHs) as tracer of leachate pollution in Langat River.</i>	Member	Completed	2012
8.	<b>Hanim Farhana bt. Abd Rahman</b> <i>Development of modified drastic model based on Peninsular Malaysia Hydrogeological Environment.</i>	Member	Completed	2013
9.	<b>Mohd Fadhil Kasim</b> <i>Modeling groundwater–surface water interactions using</i>	Chairman	On-going	2015

	<i>chemometric techniques</i>			
10.	<b>Siti Najyan Said</b> <i>Bioavailability of heavy metals from selected vegetables and fruits using digestive tract fluids</i>	Member	On-going	2014
11.	<b>Moh Yiing Chee</b> <i>Local's perception towards recycling As a sustainable waste management strategy in Muar, Johor</i>	Member	Completed	2013
12.	<b>Siti Hajar bt. Sulaiman</b> <i>Evaluation on acceptability of the environmental education kit among teachers at selected schools in Peninsular Malaysia</i>	Member	Completed	2013
13.	<b>Lim Ai Phing</b> <i>Development of effective water treatment technique by using Calcareous Skeleton Stabilizing Agent: Potential application in attenuation of toxic metals.</i>	Member	Completed	2013
14.	<b>Nurashida Saad</b> <i>Estimate of carbon dioxide emission from Malaysia upstream oil and gas industry operation</i>	Member	On-going	2014
15.	<b>Nur Hazirah Hisyam Ng</b> <i>Children environmental knowledge and education</i>		Completed	
16.	<b>Amal Najihah Hanim Mohamad Suhimin</b> <i>Environmental management practices among hotels in Putrajaya, Malaysia</i>	Member	Completed	2014
17.	<b>Norfadillah Hasan Basuri</b>	Chairman	On-going	2016
18.	<b>Mohammad Azizi Amran</b>	Chairman	On-going	2016
19.	<b>Ahmad Dasuki Mustafa</b>	Chairman	On-going	2016
20.	<b>Fazureen Azaman</b>	Chairman	On-going	2016
21.	<b>Ahmad Firdaus Kamaruddin</b>	Chairman	On-going	2016
22.	<b>Aminu</b>	Chairman	On-going	2015
23.	<b>Hamza</b>	Chairman	On-going	2015
24.	<b>Usman</b>	Chairman	On-going	2015
25.	<b>Awallu</b>	Member	On-going	2015
26.	<b>Mohd Romizan Osman</b>	Chairman	On-going	2017
27.	<b>Nur Hishaam Sulaiman</b>	Chairman	On-going	2017
28.	<b>Ismail Zainal Abidin</b>	Chairman	On-going	2017
29.	<b>Izwan Ariff Azizan</b>	Member	On-going	2016

#### Master of Environment (MEnv)

No.	Name of Students and Title of	Chairman/Member	Status	Graduated
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	Thesis/Project			(Expected)
1.	<b>Yazeereen Abu Bakar</b> <i>Identification sources of variation on trash fish landing and implications to marine fish resources using chemometric techniques in Peninsular Malaysia</i>	Chairman	Completed	2013
2.	<b>Ezureen Ezani</b> <i>Environmetrics Data Analysis of Air Quality in Peninsular Malaysia</i>	Chairman	Completed	2013
3.	<b>Sharifah Norsukhairin Syed Abdul Mutalib</b> <i>Environmetric Techniques on Spatial and Temporal Air Quality Pattern at Three Different Monitoring Stations in Malaysia</i>	Chairman	Completed	2013
4.	<b>Nur Izyan Othman</b> <i>Prevalence of Needlestick and Other High Risk Exposure among Health Care Workers in UKM Medical Centre</i>	Chairman	Completed	2013
5.	<b>Mastura Abdullah</b> <i>Spatial Water Quality Assessment of Selected Rivers Basins in Three Different States (Malaysia) using Environmetric Techniques</i>	Chairman	Completed	2013
6.	<b>Ku Mohd Kalkausar Ku Yusof</b> <i>Hydrological pattern recognition study: Application to long term inflow forecasting</i>	Chairman	Completed	2012
7.	<b>Nurulaslah Baharudin</b> <i>Risk Assessment of River water quality using multivariate analysis and statistical process control: A case study at Linggi river, Malaysia</i>	Chairman	Completed	2012
8.	<b>Mohd Zamri Jamaludin</b> <i>Use of cattails (TypHA Angustifolia) in constructed wetland model for greywater treatment</i>	Chairman	Completed	2012
9.	<b>Norhafizah Mohd Nor</b> <i>Spatial pattern analysis of groundwater Hydrogeochemistry using multivariate statistical techniques at Northern,</i>	Chairman	Completed	2012

	<i>Kelantan, Malaysia</i>			
10.	<b>Ahmad Shakir Mohd Saudi</b> <i>Urban Development effecting surface water quality of Kuantan River Basin</i>	Chairman	Completed	2011
11.	<b>Putri Shazlia Rosman</b> <i>Water Quality Assessment of Muarriver environmetric techniques and using artificial neural networks</i>	Chairman	Completed	2011
12.	<b>Nurdiana Shaharudin</b> <i>Identification of scheduled waste finished product relationship in electronic industries at Bandar baru Bangi, Selangor</i>	Chairman	Completed	2011
13.	<b>Nor syafiqah Tukiran</b> <i>Evaluation of water quality of Terengganu River Basin (Malaysia)</i>	Chairman	Completed	2011
14.	<b>Syuhaida Razali</b> <i>Identification of Pollution Sources in Sungai Klang (Malaysia)</i>	Chairman	Completed	2011

#### Bachelor

No.	Name of Students and Title of Thesis/Project	Main-supervisor/Co-supervisor	Status	Graduated (Expected)
1.	<b>Nur Athirah Abu Latif</b> <i>Environmetrics Approach for Spatial Water Quality Characterization in Malaysian Coastal and Estuaries</i>	Main-supervisor	On-going	2014
2.	<b>Wan Siti Sarah Wan Nizam</b> <i>Marine water quality data analysis and modelling using environmetrics at coastal area</i>	Main-supervisor	On-going	2014
3.	<b>Nabilah Mohd Radzi</b> <i>Chemometrics Data Analysis of Marine Water Quality for Selected Islands in Malaysia</i>	Main-supervisor	On-going	2014
4.	<b>Nur Hishaam Sulaiman</b> <i>Temporal hydrological modelling using autoregressive integrated moving average (ARIMA) and artificial neural network (ANN): A case study at Kuantan River.</i>	Main-supervisor	On-going	2014
5.	<b>Hapizah bt. Haron</b> <i>Tracing faecal sterols sources using the combination of supervised and unsupervised pattern recognition techniques</i>	Main-supervisor	Completed	2013
6.	<b>Siti Suhaida Ramli</b>	Main-supervisor	Completed	2013

	<i>Spatial pattern recognition of water quality using chemometrics and ANN approach</i>			
7.	<b>Cheong Sok Yi</b> <i>Temporal Assessment of the ocean current due to climate change in Lumut, Malaysia.</i>	Main-supervisor	Completed	2013
8.	<b>Mai Sarrah Osman</b> <i>Application of an Artificial Neural Network (ANN) model with Principle Component Analysis for evaluation of air quality index in Peninsular Malaysia</i>	Main-supervisor	Completed	2013
9.	<b>Azilla Misran</b> <i>Artificial neural network modeling of Kuantan River water quality.</i>	Main-supervisor	Completed	2011
10.	<b>Teo Lee Hong</b> <i>Application of Mann-Kendall and Principal Component Analysis in analyzing water quality data at Perlis River, Malaysia.</i>	Main-supervisor	Completed	2011
11.	<b>Jasfina Ismail</b> <i>Assessment of Kinta River water quality by using multivariate technique.</i>	Main-supervisor	Completed	2011
12.	<b>Kamariah Hussein</b> <i>Assessment of Johor River water quality by using absolute principal component scores (APCS)-artificial neural network (ANN) model.</i>	Main-supervisor	Completed	2011
13.	<b>Nuraaina Roslan</b> <i>Water quality prediction model for Juru River, Malaysia.</i>	Main-supervisor	Completed	2011
14.	<b>Nur Rawaida Mohd Yusoff</b> <i>Source apportionment in Kuantan River by using multiple linear regression based on principal component analysis.</i>	Main-supervisor	Completed	2010
15.	<b>Nurul Syahidatul Najwa Muda</b> <i>Identification of sources of pollution at Kuantan River, Johor River and Klang River.</i>	Main-supervisor	Completed	2010
16.	<b>Hashimah Hussain</b> <i>Application of Multivariate Analysis Techniques in Assessment of Kuantan River Basin Water Quality</i>	Main-supervisor	Completed	2010
17.	<b>Siti 'Aisyah Basirun</b> <i>The Application of Mann-Kendall Technique to Determine the Trend of Spatial and Temporal Surface Water Quality at Klang River, Malaysia</i>	Main-supervisor	Completed	2010
18.	<b>Isahak Mohd</b> <i>Application of APCS-ANN in Source Apportionment of Water Quality Parameter: A Case Study of Kedah River Basin</i>	Main-supervisor	Completed	2010
19.	<b>Rosearnida Senawi</b> <i>The Development of River Water Quality Prediction Model Using Artificial Neural</i>	Main-supervisor	Completed	2010

**(J) Thesis Examination**

1. **External Examiner.** Nor Azlina bt. Abd. Aziz (2010). Pemodelan Hidrodinamik Sungai dan Aplikasi Manual Saliran Mesra Alam (MSMA) dalam Pengurusan Aliran Ribut di Lembangan Sungai Damansara. Master Environmental Management, Faculty of Social Science and Humanities, Universiti Kebangsaan Malaysia.
2. **External Examiner.** Noraini Wahidah bt. Abdullah (2012). Analisis Potensi Hakisan Tebing Sg. Chini, Pahang. Master Environmental Management, Faculty of Social Science and Humanities, Universiti Kebangsaan Malaysia.
3. **Internal Examiner.** Farhah Amalya binti Ismail (2013). Kinetic and morphological characteristic of the carbonate shell from aqueous cadmium ion. Master Science (Environmental Hidrology and Hidrogeology), Faculty of Environmental Studies, Universiti Putra Malaysia.
4. **External Examiner** Frankie Marcus Ata (2014). Kesan Pintasan Ke Atas Infiltrasi dan Kelembapan Tanah di Kawasan Hutan Dipterokap Tasik Chini, Pahang. Master of Art, Faculty of Social Science and Humanities, Universiti Kebangsaan Malaysia.

**(K) Consultancy/Scientific Research**

No.	Role/Name of Project/Amount/Duration/Funding Body/Level	Status
1.	<b>Principal Investigator</b>  Salt Intrusion to Groundwater Due to Sea Level Rise in Terengganu RM 15,000.00 Mac 2015 – February 2017  Project Ref. Code:UKM IPI/244/14	On-going
2.	<b>Principal Investigator</b>  Integrated Biological Wastewater Treatment of Batik and Keropok Lekor Industries Using Moringa Oleifera – <i>E. Faecalis</i> : Laboratory Scale Study RM100,000.00  August 2015 – January 2016 Humic Tropic Center, Department of Irrigation and Drainage Malaysia	On-going
3.	<b>Consultant</b>  Projek Kajian Penetapan Standard Ambien Udara Bagi Parameter Hidrogen Sianida (HCN) RM150,000.00 June - December 2015 Jabatan Alam Sekitar Malaysia	On-going
4.	<b>Principal Investigator</b>  i-ALAM RM60,000.00 Februari – Disember 2015 University Community Transformation Center (UCTC)	On-going
5.	<b>Principal consultant</b>  Marine water quality monitoring at Kerteh Port RM12,000.00 Mac 2015 Envirotech Integrated Sdn. Bhd.	Completed
6.	<b>Principal consultant</b>  Lake water quality sampling and monitoring RM 21,000.00 January – Dcember 2016 UniSZA Holding-TNB	On-going
7.	<b>Researcher</b>  Impak Banjir Terhadap Ekonomi Enterprise Kecil dan Sederhana di Rantau Panjang, Kelantan: Analisa Kos Pembiayaan dan Pemulihan Perniagaan RM 64,200.00 April – December 2015 Fundamental Research Grant Scheme, Ministry of Higher Education (MOHE), Malaysia Project Ref. Code: FRGS/1/2015/stwn01/UNISZA/02/1	On-going
8.	<b>Researcher</b>  Kesan Hakisan Tebing dan Sisi Sungai Akibat Luruan Air Banjir 2014: Keperluan Garis Panduan Pembangunan Zon Penampakan Sungai di Malaysia RM 85,200.00 April – December 2015 Fundamental Research Grant Scheme, Ministry of Higher Education (MOHE), Malaysia Project Ref. Code:FRGS/1/2015/STWN01/UNISZA/01/1	On-going
9.	<b>Principal consultant</b>  EIA for the construction of aeroplane hangar at TUDM Gong Kedak RM85,000.00 January – December 2015 Syarikat	On-going

- Setiajaya Sdn. Bhd.
10. **Principal consultant**|Marine water quality sampling and monitoring at Malaysian Thailand Joint Development Area (MTJDA)|RM15,000.00|Mac – April 2015|Integrated Envirotech Sdn. Bhd. On-going
  11. **Researcher**/Simulation of evolution of hydrochemistry in the small tropical island aquifer/RM50000/December 2009 - November 2011/Fundamental Research Grant (07-11-09-696FR)/Ministry of Higher Education (MOHE), Malaysia/**National** Completed
  12. **Researcher**/Study on the process and mechanisms of microbial activities in enhancing river water quality using agrobased media/RM30000/Jan 2008 - Jan 2010/Fundamental Research Grant Scheme (FRGS)(05-10-07-368FR)/Ministry of Higher Education (MOHE)/**National** Completed
  13. **Consultant**/ Kajian Penubuhan Pusat Sains Sabah/RM300000/June 2010 - June 2011/Unit of Science and Technology, Chief Minister Office of Sabah, Malaysia/**National** Completed
  14. **Researcher**/Spatial Pattern Recognition Study of Environmental Awareness in Schools in Fulfilling the Aspiration of National Philosophy of Education/RM35000/May 2011 - May 2013/Research University Grant Scheme (06-01-11-1335RU)/**National** On-going (85%)
  15. **Lead Consultant**/Study on the impact of minimum flow of river water quality at Klang River (Phase II)/RM24000/ October - December 2009/ National Hydraulic Research Institute of Malaysia (NAHRIM)/**National** Completed
  16. **Lead Consultant**/River water quality monitoring program and awareness campaign at Ipoh City Center, Perak/RM50000/Section of River, Department of Drainage and Irrigation, Malaysia/**National** Completed
  17. **Lead Consultant**/Study on the impact of minimum flow of river water quality at Klang River/RM24000/October - December 2008/National Hydraulic Research Institute of Malaysia (NAHRIM)/**National** Completed
  18. **Lead Consultant**/Study on Water Quality Assessment and Improvement of Sungai Kinta Phase II/RM19800/June - August 2009/Department of Irrigation and Drainage Kinta and Batang Padang, Department of Drainage and Irrigation, Perak, Malaysia/**National** Completed
  19. **Lead Consultant**/Study on Water Quality Assessment and Improvement of Sungai Kinta Phase I/RM14000/June - August 2008/Department of Irrigation and Drainage Kinta and Batang Padang, Department of Drainage and Irrigation, Perak, Malaysia/**National** Completed
  20. **Coordinator**/One-State-One-River Program/RM49000/December 2006 - December 2008/Department of Irrigation and Drainage, Malaysia/**National** Completed
  21. **Lead Consultant**/The assessment of surface water quality and river system capability on pollution loading of Sg. Muda using statistical process control/RM10000/July 2006 - September 2006/National Hydraulic Research Institute of Malaysia (NAHRIM)/**National** Completed
  22. **Lead Consultant**/The Development of Fire Monitoring System for Fire Protection Unit/RM30000/February 2004-August 2004/Forest Research Institute (FRIM), Malaysia/**National** Completed
  23. **Lead Consultant**/Seven quality tools, statistical process control and capability process for quality engineering/RM50000/Mac 2000/Petronas Penapisan Terengganu Sdn. Bhd./**National** Completed



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| 24. | <b>Principal Investigator</b> /Diesel fuel fingerprinting and source identification of the spillage in Peninsular Malaysia/RM152000/September 2012 - September 2014/Research University Grant Scheme (RUGS) (03-02-12-1744RU)/Ministry of Higher Education (MOHE), Malaysia/National   | Completed |
| 25. | <b>Researcher</b> /Integrated River Basin and Coastal Ecosystem Management In Kota Marudu, Sabah/RM280000/November 2008 – December 2010/Ministry of Science, Technology and Innovation (MOSTI), Malaysia/National  | Completed |
| 26. | <b>Principal Investigator</b> /Win win solution to Indonesia and Malaysia dispute over the continental shelf boundaries in the Sulawesi Sea/RM70000/September 2011 - September 2013/Exploratory Research Grant Scheme (ERGS/1/11/PK/UPM/02/8)/Ministry of Higher Education (MOHE), Malaysia/National   | Completed |
| 27. | <b>Principal Investigator</b> /Assesment of Greenhouse Gas (GHG) Emissions and its Reduction Potential for Malaysia's Maritime Sector Using Machine Learning Algorithm Model and the Revised 2006 Inter-governmental Panel on Climate Change (IPCC) Guidelines for National GHG Inventories/RM120000/April 2011 - April 2013/Research University Grant Scheme (RUGS) (03-01-11-1144RU), Universiti Putra Malaysia/National | Completed |
| 28. | <b>Researcher</b> /Kajian Celik Alam Sekitar di Kalangan Rakyat Negeri Sabah/RM150000/Mac 2008 - November 2008/Unit of Science and Technology, Chief Minister Office of Sabah, Malaysia/National   | Completed |
| 29. | <b>Researcher</b> / Kajian Kesedaran Sains dan teknologi di Kalangan Rakyat Negeri Sabah/RM150000/ Mac 2008 - November 2008/Unit of Science and Technology, Chief Minister Office of Sabah, Malaysia/National  | Completed |
| 30. | <b>Researcher</b> / The Development of Land Use Cumulative Index for River Water Management/RM239000/June 2006-June 2009/E-scienceFund Grant (01-01-04-SF0733), Ministry of Science, Technology and Innovation (MOSTI), Malaysia/National.   | Completed |
| 31. | <b>Principal Investigator</b> /Identification and Source Apportionment for River Water Pollution Based on Quality Engineering and Artificial Neural Network Methods/RM48000/April 2010–April 2012/Fundamental Research Grant (03-04-10-830FR), Ministry of Higher Education (MOHE), Malaysia/National  | Completed |
| 32. | <b>Researcher</b> /Decision Support System for Environmental Flow Assessment of Altered River: A Case Study of Sg. Pelus Perak/RM281400/Jan 2014-Dec 2016/E-scienceFund Grant (04-01-04-SF1784), Ministry of Science, Technology and Innovation (MOSTI), Malaysia/National.  | On-going  |
| 33. | <b>Researcher</b> / Identification and Source Apportionment of River Self Purification System Due To Rapid Pollution Loading Based On Intelligent Quality Engineering Methods/RM104,000/July 2014 – June 2017/Fundamental Research Grant (xxxxxxx), Ministry of Higher Education (MOHE), Malaysia/National   | On-going  |
| 34. | <b>Researcher</b> /Potentiality of Moringa oleifera in coagulating Chlorella sp. biomass production using adsorption isotherm for environmental-friendly microalgae harvesting/RM98,000/June 2014 – May 2017/ Fundamental Research Grant, Ministry of Higher Education (MOHE), Malaysia/National   | On-going  |
| 35. | <b>Researcher</b> /Assessing the Cloud Seeding Effectiveness to Improve the  | On-going  |

	Cloud Seeding Operation/RM870,000/Jan 2014 – December 2016/E-scienceFund Grant (JMM0000021)/National	
36.	<b>Researcher</b> /Evaluation and Prediction of Air Quality Based on Soft Set Theory/RM20,000/Mei 2014 – Mei 2016/UniSZA/14/GU(020)/Universiti	On-going
37.	<b>Researcher</b> /Streamflow Prediction Based on Artificial Neural Network: A Case Study in Terengganu/RM20,000/ Mei 2014 – Mei 2016/UniSZA/14/GU(022)/National	On-going
38.	<b>Researcher</b> /Effects of Forest Structure on Rainfall Partitioning and Nutrient Fluxes in Lowland Dipterocarp Forest and Heath Forest/RM30,000/November 2013 – November 2015/SBK0082-STWN-2013	On-going
39.	<b>Researcher</b> /Impact of Climate Change on Sea Level Rise in Terengganu Coastline/RM101,000.00/1 December 2014-30 November 2017/FRGS/2/2014/STWN06/UNISZA/01/1/Project code: RR 082	On-going

### (L) Professional Services

1. **Guest Lecturer** for Statistical and Chemometrics Method in Analytical Chemistry Workshop, Chemistry Department, 25 – 28 August 2015.
2. **Invited Speaker** on “How To Write A Good Research Proposal” organized by Center for Postgraduate Study, Universiti Sultan Zainal Abidin. 19 December 2014.
3. **Guest Lecturer and Facilitator** on "Interactive Hands-on Course for Data Analysis-Identification of Price Seasonal Pattern” organized by Ministry of Domestic Trade, Cooperatives and Consumerism, The Federal Administrative Centre of Malaysia, Putrajaya. 4-6 November 2014.
4. **Guest Lecturer and Facilitator** on "Interactive Hands-on Course for Data Analysis” organized by Ministry of Domestic Trade, Co-operatives and Consumerism, The Federal Administrative Centre of Malaysia, Putrajaya. 19-21 November 2013.
5. **Facilitator of Training of Trainers** on “Environmental Awareness” organized by Ministry of Domestic Trade, Co-operatives and Consumerism Sarawak Branch, at Lundu Sarawak 14-16 November 2013.
6. **Guest Lecturer and Facilitator** on "Interactive Hands-on Course for Scientific Data Analysis Using Chemometric Methods" organized by Ministry of Health, Pusat Pentadbiran Kerajaan Persekutuan, Putrajaya. 26-28 February 2013.
7. **Guest Lecturer and Facilitator** on " Data Analysis and Geohydrological Modelling" at Paya Indah Wetland, organized by Geohydrological Research Center, National Hydraulic Research Institute of Malaysia (NAHRIM). 9 - 11 April 2012.
8. **Invited speaker** on "Seminar on Groundwater Resources: Research and Development in Groundwater Resource Towards it's Sustainable Development" organized by National Hydraulic Research Institute of Malaysia (NAHRIM). 20 November 2012 at UiTM Shah Alam.
9. **Facilitator** on "Postgraduate Writing Workshop" organized by Faculty of Environmental Studies, UPM. 26 June 2012.
10. **Facilitator**, Workshop on Preparation of COPPA Document for Master of Environment, UPM. 27-29 June 2011.
11. **Guest Lecturer and Facilitator** on "Penggunaan Statistik untuk Aplikasi Data Sebenar Menggunakan Perisian Excel" organized by Center of Mathematical Science Studies, Faculty of Science and Technology, Universiti Kebangsaan Malaysia. 25 July 2011.
12. **Guest Lecturer and Facilitator** on "Chemometric Techniques in Analytical Chemistry" organized by Department of Chemistry, Malaysia. 2011.

13. **Guest Lecturer and Facilitator** on "Kursus Penganalisan Data dan Penulisan Laporan" organized by Department of Statistics Malaysia, Pusat Pentadbiran Kerajaan Persekutuan, Putrajaya. 9-11 Februari 2011.
14. **Guest Lecturer and Facilitator** on "Chemometric Techniques in Analytical Chemistry" organized by Department of Chemistry, Malaysia. 2011.
15. **Guest Lecturer and Facilitator** on "Exploratory Data Analysis using Multivariate Analysis" organized by Coastal Research Center, National Hydraulic Research Institute of Malaysia (NAHRIM). 2011.
16. **Guest Lecturer and Facilitator** on "Exploratory Data Analysis using Multivariate Analysis" organized by Dept. of Biological Engineering & Agriculture, Faculty of Engineering, UPM. 2011
17. **Guest Lecturer and Facilitator** on "High Impact Journal Writing Workshop" at Hotel Vistana, Kuala Lumpur, organized by Geohydrological Research Center, National Hydraulic Research Institute of Malaysia (NAHRIM). 23 December 2010.
18. **Guest Lecturer and Facilitator** on "Kursus Penganalisan Data dan Penulisan Laporan" organized by Department of Statistics Malaysia, Pusat Pentadbiran Kerajaan Persekutuan, Putrajaya. 1-3 November 2010.
19. **Guest Lecturer and Facilitator** on "Kursus Penganalisan Data dan Penulisan Laporan" organized by Department of Statistics Malaysia, Pusat Pentadbiran Kerajaan Persekutuan, Putrajaya. 9-11 Februari 2010.
20. **Invited Speaker** on "Isu Kelestarian Alam Sekitar: Dari Kesedaran Kepada Tindakan" for Sambutan Hari Alam Sekitar Sedunia organized by International Youth Centre, Ministry of Youth and Sports Malaysia.
21. **Guest Lecturer and Facilitator** on "Exploratory Data Analysis and Modelling using Chemometric Techniques" organized by Centre of Bioprocess Technology & Environment, SIRIM Bhd. 2009
22. **Guest Lecturer and Facilitator** on "Exploratory Data Analysis and Modelling using Chemometric Techniques" organized by Center of Chemical Studies and Environment, Faculty of Applied Sciences, UiTM 2009.
23. **Guest Lecturer and Facilitator** on "Exploratory Data Analysis using Multivariate Methods" organized by Dept. of Biological Engineering & Agriculture, Faculty of Engineering, UPM. 2009.
24. **Guest Lecturer and Facilitator** on "Exploratory Data Analysis for Quality Control Chemist" organized by Department of Agriculture, Malaysia. 2009.
25. **Guest Lecturer and Facilitator** on "Exploratory Data Analysis using Multivariate Methods" organized by Dept. of Biological Engineering & Agriculture, Faculty of Engineering, UPM. 2007.
26. **Facilitator** on "Short Course for Geographical Information System using Arc-View Software II" organized by Department of Environmental Sciences, Faculty of Environmental Studies, UPM. 5 - 9 December 2005.
27. **Guest Lecturer and Facilitator** on "An Introduction to Environmental Data Analysis" for NAHRIM officer organized by Consultancy Unit of Universiti Malaya. 18 - 23 April 2005.

#### **(M) Editorial Work and Referee for Scientific Manuscripts submitted to Journals/Book**

##### **Editorial Work**

1. **Book Editor**, Hidrologi Tanah Tinggi dan Tasik. UniSZA Publisher, 2014.
2. **Book Editor**, Sanitary Landfill (Mechanism, Processes, Potential Impacts and Post Closure Management). UPM Press, 2008.
3. **Guest Editor**, Geoinformatics and Geostatistics for the Special Issue on "Proceedings of 9th International Conference African Association of Remote Sensing of the Environment", 2013.
4. **Book Editor**, Selected Essays in Environmental Sciences and Management: Towards Sustainable Tropical Environment. UPM Press, 2006.

## Referee for manuscript submitted to:

1. ***Environmental Earth Sciences*** | Manuscript title: Estimation of Sediment Discharge Using Back Propagation Neural Network Training Algorithm: A Case Study of Narmada River, India | Publisher: Springer | Ref. No.: ENGE-D-15-01667 | Year: 2015
2. ***Aerosol and Air Quality Research*** | Manuscript title: The Influence of Spatial Variability of Critical Conversion Point (CCP) in Production of Ground Level Ozone in the Context of Tropical Climate | Publisher: Taylor & Francis | Ref. No.: AAQR-15-04-OA-0225 | Year: 2015.
3. ***International Journal of Environmental Analytical Chemistry*** | Manuscript title: Detection and prediction of air pollution inside complex chemical plants using the Shadow Ribbon | Publisher: Taylor & Francis | Ref. No.: GEAC-2015-0118 | Year: 2015
4. ***Journal of Agriculture and Ecology Research International*** | Manuscript title: Possible heavy metal residues in poultry and their products that are bred around cement industry | Publisher: Science Domain International | Ref. No.: MS: 2015\_JAERI\_18214 | Year: 2015
5. ***British Microbiology Research Journal*** | Manuscript title: Assessment of fungal propagules in some selected banking halls of the University of Cape Coast Community, Ghana. | Ref. No.: MS: 2015\_BMRJ\_18231 | Year: 2015
6. ***Advances in Research*** | Manuscript title: Assessment of Particulate Air Quality in Ho Municipality, Ghana | Publisher: Science Domain International | Ref. No.: MS: 2015\_AIR\_16031 | Year: 2015
7. ***Asian Journal of Mathematics and Computer Research*** | Manuscript title: Hybrid Classification Method for Wild Olive Based on GLCM and Neural Networks/in Syria region | Ref. No.: MS: 2014\_jomcor\_520 | Year: 2014
8. ***Journal of Basic and Applied Research*** | Manuscript title: Modelling Long-Range Transport and Chemical Transformation of Pollutants In Southern Africa | Ref. No.: MS: 2014\_JOBARI\_531 | Year: 2014
9. ***Asian Journal of Atmospheric Environment*** | Manuscript title: Air pollution prediction using both factor analysis and Box-Jenkins time series in the northwest of Tehran | Publisher: Scholarone | Ref. No.: AJAE-2014-0035 | Journal Impact factor: - | Year: 2014
10. ***Ecological Indicators*** | Manuscript title: Colorimetric detection of caspase 3 activity: a potential early indicator of thermal stress in corals | Publisher: Elsevier | Ref. No.: ECOLIND-4290 | Journal Impact factor: 3.230 | Year: 2014
11. ***Advances in Research*** | Manuscript title: Hypertension Predictive Model With Neural Network Approach: A Case Study of Kumasi Metropolis | Publisher: Sciencedomain | Ref. No.: 2014\_AIR\_13933 | Year: 2014
12. ***Ecological Indicators*** | Manuscript title: Does my aquatic system achieve the good chemical status? Evaluation of transitional water bodies based on the metal concentration of World-Wide sediment samples | Publisher: Elsevier | Ref. No.: ECOLIND-4129 | Journal Impact factor: 3.230 | Year: 2014
13. ***Geografi*** | Manuscript title: Soil and nutrient loss from different land use and land cover of Bukit Merah Reservoir (BMR) catchment, Perak, Malaysia | Publisher: UPSI Press | Ref. No.: Geografi Vol 2 Artikel No. 7 | Year: 2014
14. ***Journal of Testing and Evaluation*** | Manuscript title: An analysis for relationship between concentration of air pollutants and meteorological factors in Xi'an | Publisher: ASTM International | Ref. No.: JTE-2014-0297 | Journal Impact factor: 0.349 | Year: 2014
15. ***Environmental Engineering and Management Journal*** | Manuscript title: Particulate Matter Status In Romanian Urban Areas : Pollution With PM10 In Bucharest | Publisher: Technical University of IASI | Ref. No.: 530\_Proorocu\_14\_R1 | Journal Impact factor: 1.258 | Year: 2014
16. ***American Journal of Experimental Agriculture*** | Manuscript title: Air contaminants emissions at sheep and goat husbandry as a part of AFO's emissions inventory | Publisher: Science Domain International | Ref. No.: MS: 2014\_AJEA\_12119 | Period: 24th June – 11 July 2014

17. **Water Resources and Industry** | Manuscript title: Evaluation of raw and treated water quality from Weija Treatment Plant using Water Quality Index | Publisher: Elsevier | Ref. No.: WRI-D-14-00043 | Period: 27 May – 16 June 2014
18. **Ecological Modelling** | Manuscript title: A traits-based model of species diversity | Publisher: Elsevier | Ref. No.: ECOMOD-14-167 | Year: 2014
19. **Ecological Indicators** | Manuscript title: Typology of diatom communities in the Dutch delta: uncovering the environmental drivers in nutrient rich ditches | Publisher: Elsevier | Ref. No.: ECOLIND-3615. | Year: 2014
20. **Journal of Chemometrics** | Manuscript title: Chemometric and Trend analysis of water quality of the South Chennai Lakes: An integrated environmental study | Publisher: Wiley & Sons, Ltd. | Ref. no.: CEM-13-0193 | Year: 2013
21. **Journal of Taibah University** | Manuscript title: Measurement of Natural Radioactivity and Evaluation of Radiation Hazards in Coastal Sediments of East Coast of Tamilnadu With Statistical Approach | Publisher: Elsevier B.V. | Ref. no.: JTUSCI-D-13-00096 | Year: 2013
22. **Environmental Engineering and Management Journal** | Manuscript title: Assessment of Surface Water Quality of Polluted River Using Multivariate Statistical Techniques: A Case Study | Ref. no.: 71\_Fang\_13. | Year: 2013
23. **Desalination and Water Treatment** | Manuscript title: Analysis of Temporal and Spatial Variations in Rawal Lake Water Quality Parameters-Islamabad, Pakistan | Publisher: Taylor & Francis | Ref. no.: TDWT-2013-0213 | Year: 2013
24. **Sky Journal of Agricultural Research** | Manuscript title: Analysis of Rural Farmers Water Management Practices for Climate Change Adaptation and Livelihood Improvement in Isiala-Mbano Area of Imo State, Nigeria | Ref. no.: SJAR-13-045 | Year: 2013
25. **Environmental Monitoring and Assessment** | Springer | Manuscript title: Classifying Pesticide Pollution in Selangor River Using Chemometric Methods | Ref. no.: EMAS-D-13-00227 | Year: 2013
26. **African Journal of Microbiology** | Manuscript title: Water Quality Deterioration and its Economic Implications | Ref. no.: AJMR-12-2276 Sibanda and Okoh | Year: 2012
27. **Journal of Art and Education (JAE)** | Manuscript title: A Study of Attitude Towards Environmental Pollution Among Perspective Teachers at Higher Level in Varanasi | Ref. no.: JAE-12-010 | Year: 2012
28. **Applied Water Science (AWSC)** | Manuscript title: Sodium Adsorption Ratio (SAR) Prediction of the Chalghazi River Using Artificial Neural Network (ANN) Iran | Ref. no.: AWSC-D-12-00084 | Year: 2012
29. **Applied Water Science (AWSC)** | Manuscript title: Utilization of Chemometric tool for quality assessment of mineral water | Ref. no.: AWSC-D-12-00098 | Year: 2012
30. **Sains Malaysiana** | Manuscript title: Assessment of Metal contaminations in Centella asiatica by Using Multivariate Analysis | Ref. no.: 2012/04/03(140) | Year: 2012
31. **Sains Malaysiana** | Manuscript title: Analisis Kualiti Air Tasik Chini Menggunakan Pendekatan Multivariat | Ref. no.: 2012/06/12(264) | Year: 2012
32. **Sains Malaysiana** | Manuscript title: Supervised and Unsupervised Artificial Neural Networks for Analysis of Diatom Abundance in Tropical Putrajaya Lake (Malaysia) | Ref. no.: 2011/06/29(208) | Year: 2011
33. **Sains Malaysiana** | Manuscript title: Pengaruh Kanopi Hutan Sekunder Terhadap Kadar Pintasan bagi Keseimbangan Air di Tasik Chini, Pahang, Malaysia | Ref. no.: 2008/10/29(176) | Year: 2008
34. **Sains Malaysiana** | Manuscript title: Kajian Perubahan Guna Tanah Kawasan Bandar Pekan Baru dengan Menggunakan Sistem Maklumat Geografi (GIS) | Ref. no.: 2008/03/27(59) | Year: 2008
35. **Sains Malaysiana** | Manuscript title: Pemantauan Kualiti Air Berdasarkan Pengelasan IKA Bagi Sungai-sungai Terpilih di Cameron Highlands | Ref. no.: 2008/07/01(108) | Year: 2008
36. **ECOPERSIA** | Manuscript title: Assessment of Stream Water Quality in Tropical Grassland Using Water Quality Index | Ref. no.: 1163-ECOPERSIA

37. **Sains Malaysiana** | Manuscript title: Climate Change Assessment Using Statistical Downscaling and Artificial Neural Network Approaches: A Case Study in the Catchment of Bernam River, Selangor | Ref. no.: 2012/12/04(605) | Year: 2012
38. **Aerosol and Air Quality Research** | Manuscript title: Multivariate methods for indoor PM<sub>10</sub> and PM<sub>2.5</sub> modeling in naturally ventilated schools buildings | Publisher: Taylor & Francis | Ref. no.: AAQR-13-05-OA-0167 | Year: 2013

## (N) Publications

### H Index/No. of Publications and Citations

Researcher	Particular
Name:	Hafizan Juahir
Other formats	Juahir, Hafizan; Juahir, H.; Hafizan, J., Juahir, H.H.
Researcher ID	35186223500
H Index (SCOPUS)	10
H Index (Thompson)	10
H Index (Google Citations)	15
No. of Citations	309 (SCOPUS) and 699 (Google Scholar Citations)
Book	-
Chapters in Book	18
Science Citation Index (SCI) Journal	67
Non Science Citation Index (NSCI) Journal	13
Other Academic Writings	55

### Books/Chapters in Book

1. Mohd Khairul Amri Kamarudin, Mohd Ekhwan Toriman, Mohd Hafiz Rosli, Hafizan Juahir, Nor Azlina Abd Aziz, Zulkifli Yusop, Ahmad Shakir Mohd Saudi, 2014. Siasatan Evolusi Meander Sungai Menggunakan Pendekatan GIS di Hulu Sungai Pahang, Malaysia. In Mohd Ekhwan Toriman, Muhammad Barzani Gasim, Mohd Khairul Amri Kamarudin, Nor Azlina Abd Aziz, Hafizan Juahir (ed), *Hidrologi Tanah Tinggi dan Tasik*, UniSZA Publisher.
2. Faradiah Md. Dali, [Hafizan Juahir](#), Ahmad Zaharin Aris, Mohd Ekhwan Toriman, Ai Phing Lim, Ley Juen Looi, Syed Badruz-Zaman Syed Sagoff, Faradiella Mohd Kusin, 2014. Assessment of Water Quality Using Environmetric Techniques at Johor River. In A. Z. Aris et al., (eds) *From Sources to Solution*. Springer Science, p.403-407. (DOI: 10.007/978-981-4560-70-2\_73).
3. Azman Azid, [Hafizan Juahir](#), Ahmad Zaharin Aris, Mohd Ekhwan Toriman, Mohd Talib Latif, Sharifuddin Mohd Zain, Ku Mohd Kalkausar Ku Yusof, Ahmad Shakir Mohd Saudi, 2014. Spatial Analysis of the Air Pollutant Index in the Southern Region of Peninsular Malaysia Using Environmetric Techniques. In A. Z. Aris et al., (eds) *From Sources to Solution*. Springer Science, p.307-312. (DOI: 10.007/978-981-4560-70-2\_56).
4. Manutha Appa Rwoo, Hafizan Juahir, Azman Azid, Sharifah Mohd Sharif, Nor Malissa Roslan, Sharifuddin M. Zain, Mohd Ekhwan Toriman, 2014. Spatial Variations of Drinking Water Quality Monitoring in Water Treatment Plant Using Environmetric Techniques. In A. Z. Aris et al., (eds) *From Sources to Solution*. Springer Science, p.325-329. (DOI: 10.007/978-981-4560-70-2\_59).
5. Zalina Mohd Ali, Noor Akma Ibrahim, Kerrie Mengersen, Mahendran Shitan, [Hafizan Juahir](#), 2014. Discriminant Analysis of Water Quality Data in Langat River. In A. Z. Aris et al., (eds) *From Sources to Solution*. Springer Science, p.307-312. (DOI: 10.007/978-981-4560-70-2\_106).
6. Ananthy Retnam, [Hafizan Juahir](#), Mohamad Pauzi Zakaria, Ahmad Zaharin Aris, Mohd Fadhil Kasim, 2014. Water Quality and Enrichment of Sedimentary Polycyclic Aromatic Hydrocarbons

- (PAHs) Relation to Fish Culture in Malaysia. In A. Z. Aris et al., (eds) *From Sources to Solution*. Springer Science, p.555-559. (DOI: 10.007/978-981-4560-70-2\_99).
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  8. Yiing Chiee Moh, Latifah Abd Manaf, Hafizan Juahir, 2014. Opportunities for Household Solid Waste Recycling and Policy Status in Malaysia. In A. Z. Aris et al., (eds) *From Sources to Solution*. Springer Science, p.143-147. (DOI: 10.007/978-981-4560-70-2\_27).
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  10. Ai Phing Lim, Ahmad Zaharin Aris, Hafizan Juahir, 2014. An Experimental Approach on the Removal of Cd (II) and Pb (II) Ions from Aqueous Solutions by Using Dead Calcareous Skeletons. In A. Z. Aris et al., (eds) *From Sources to Solution*. Springer Science, p.117-120. (DOI: 10.007/978-981-4560-70-2\_22).
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  12. Rashid Atta Khan, Sharifuddin M. Zain, Hafizan Juahir, Mohd Kamil Yusoff, Tg. Hanidza, T.I., 2012. Using Principal Component Scores and Artificial Neural Networks in Predicting Water Quality Index. In Varmuza, K. (ed), *Chemometrics in Practical Applications*: Intech Open Access Publisher.
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10. Kamarudin, M.K.A., Toriman, M.E., Juahir, H., Azid, A., Gasim, M.B., Saudi, A.S.M., Umar, R., Sulaiman, N.H., Ata, F.M., Mustafa, A.D., Amran, M.A., Yusoff, W.A., Azaman, F., 2015. Assessment of river plan change using RS and GIS technique. *Jurnal Teknologi*, 76 (1), pp. 31-38.
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