

CURRICULUM VITAE

1. **NAME:** PROF. TS. DR. WARDAH BINTI TAHIR
2. **Place of Birth:** Johor Malaysia

3. **EDUCATION:**
(State year in which qualification is obtained)

- i. PhD in Civil Engineering (2008), Universiti Teknologi MARA
- ii. MSc in Water Resources Tech & Management (1998), Faculty of Civil Engineering, Birmingham University, UK
- iii. BSc in Agricultural Engineering (1990) Cornell University, Ithaca, New York, USA.
- iv. Sekolah Menengah Sains Johor Kluang, Johor



4. **INVOLVEMENT IN PROFESSIONAL SOCIETIES:**

1. Registered with the Board of Engineers Malaysia (BEM)
2. Member of International Association of Hydro-Environment Engineering and Research (IAHR)
3. Member of Malaysian Hydrological Society (MHP)
4. Treasurer of Persatuan Konkrit Malaysia (PERKOM) (2002-2004)
5. Member of Persatuan Konkrit Malaysia (PERKOM)
6. Member of Asia-Oceania Geo-Scientist (AOGS)
7. Deputy Chair for JKLPA UNESCO-IHP (2010-2012)
8. EXCO member UNESCO-IHP Malaysia (2010-2012)

5. **WORK EXPERIENCE:** (Starting with present position)

FROM: 1992 TO: Current

EMPLOYER: UNIVERSITI TEKNOLOGI MARA (UiTM), MALAYSIA

POSITION HELD:

- a) **Deputy Director, Research Nexus UiTM** – June 2020 - present
- b) **Professor** - July 2018 - Present
- c) **Deputy Dean (Academic)** -
Faculty of Civil Engineering UiTM, Shah Alam. October 2010 – July 2019
- d) **Deputy Dean (Research and Industrial Linkages)**
Faculty of Civil Engineering UiTM Shah Alam. June 2010 – Sep 2010
- c) **Head of Center for Studies:** Water Resources and Environmental Systems, Faculty of Civil Engineering UiTM Shah Alam. July 2008 – June 2010
- d) **Head of Programme:** Building, Maintenance and Survey Faculty of Civil Engineering, UiTM, Shah Alam. 2002-2004
- e) **Associate Professor:** Faculty of Civil Engineering, UiTM. 2003-2018
- f) **Lecturer:** Faculty of Civil Engineering, UiTM. 1998 – 2003
- g) **Lecturer:** International Education Centre, UiTM. 1992 – 1997

6. SELECTED PUBLICATIONS

- S Ramly, W Tahir, J Abdullah, J Jani, S Ramli, A Asmat (2020) Flood Estimation for SMART Control Operation Using Integrated Radar Rainfall Input with the HEC-HMS Model. *Water Resources Management* 34 (10), 3113-3127
- AT Mat Taib, W Tahir, S Ramli, IS Ahmad Mohtar (2020) Hydro-Meteorological Flood Forecasting Using Tank Model with Satellite-Based Rainfall Input for Kemaman River Catchment. *International Journal of Civil Engineering and Technology* 11 (1)
- Lee, W. K., Isa, C. M. M., & Tahir, W. (2019, November). Civil Engineering Student Perception Towards Blended Learning in A Malaysian Public University. In *2019 IEEE 11th International Conference on Engineering Education (ICEED)* (pp. 68-71). IEEE.
- Isa, C. M. M., Joseph, E. O., Saman, H. M., Jan, J., Tahir, W., & Mukri, M. (2019). Attainment of Program Outcomes under Psychomotor Domain for Civil Engineering Undergraduate Students. *Journal of Academic Research in Business and Social Sciences*, 9(13), 107-122.
- Tahir, W., Azad, W. H., Husaif, N., Osman, S., Ibrahim, Z., & Ramli, S. (2019) Climatological Calibration of ZR Relationship for Pahang River Basin. *Jurnal Teknologi*, 81(4).
- Abdullah, J., Muhammad, N. S., Muhammad, S. A., Amin, N. F. M., & Tahir, W. (2019). Research trends in hydrological modelling. *Jurnal Teknologi*, 81(4).
- FM Razelan, W Tahir, NKEM Yahaya (2018) Studies on the current state of water quality in the Segamat River. *IOP Conference Series: Earth and Environmental Science* 140 (1), 012016
- AAM Ashri, W Tahir, NSM Harmay, ISA Mohtar, S Osman, WHAWA Majid (2018) Statistical verification of Numerical Weather Prediction (NWP) for rainfall estimation in the East Coast Region. *International Journal of Engineering and Technology (UAE)* 7 (3), 168-171
- W Tahir, R Suzana, O Sazali, A Hafiz, MS Lariyah, J Sharmy. (2018) Radar rainfall calibration for improved quantitative precipitation estimates in Kelantan and Terengganu river basins. *International Journal of Civil Engineering and Technology* 9 (8), 27-36
- Tahir, W., Aminuddin, A. K., & Mohtar, I. S. A. (2017). Use of NWP model products and metsat images data for quantitative precipitation forecast. *Journal of Engineering and Applied Sciences*, 12(9), 2248-2253.
- Tahir, W., Aminuddin, A. K., Ramli, S., & Jaafar, J. (2017). Quantitative precipitation forecast using numerical weather prediction and meteorological satellite for Kelantan and Klang river basins. *Jurnal Teknologi*, 79(1), 45-53.
- Adib, M. R. M., Amirza, A. R. M., Wardah, T., & Junaidah, A. (2016, July). Effectiveness Using Circular Fibre Steel Flap Gate as a Control Structure Towards the Hydraulic Characteristics in Open Channel. In *IOP Conference Series: Materials Science and Engineering* (Vol. 136, No. 1, p. 012075). IOP Publishing.
- Haron, N. F., & Tahir, W. (2016). Hydrodynamic and Salinity Intrusion Model in Selangor River Estuary. In *IOP Conference Series: Materials Science and Engineering* (Vol. 136, No. 1, p. 012083). IOP Publishing.
- Adib, M. R., Azrin, A. N., Wardah, T., & Junaidah, A. (2016). The changes of flow profile due to the construction of cylindrical structure as a hydraulic control structure in open channel. *ARPJ Journal of Engineering and Applied Sciences*, 11(4), 2359-2365.
- Wardah, T., SY, S. N. H., Suzana, R., Hamzah, A., & Maisarah, W. W. I. (2014, May). WRF model input for improved radar rainfall estimates using Kalman filter. In *Technology Management and Emerging Technologies (ISTMET), 2014 International Symposium on* (pp. 322-327). IEEE.
- Nuryazmeen, F. H., Wardah, T., & Irma, N. M. (2014). Laboratory investigations on estuary salinity mixing: preliminary analysis. *Int. J. Sci. Basic Appl. Res. (IJSBAR)*, 13(1), 36-41.
- May, R., Yusoff, I., & Tahir, W. (2014). Effects of Groundwater Withdrawal on the Interaction of Ex-Mining Pond, River, and Aquifer. In *Applied Mechanics and Materials* (Vol. 567, pp. 38-43). Trans Tech Publications.
- Basarudin, Z., Adnan, N. A., Latif, A. R. A., Tahir, W., & Syafiqah, N. (2014). Event-based rainfall-runoff modelling of the Kelantan River Basin. In *IOP conference series: earth and environmental science* (Vol. 18, No. 1, p. 012084). IOP Publishing.

- Haron, N. F., & Tahir, W. (2014). Physical model of estuarine salinity intrusion into rivers: A review. In *3rd International Conference on Applied Materials and Electronics Engineering, AMEE 2014*. Trans Tech Publications.
- MAM Razi, W Tahir, N Alias, LH Ismail, J Ariffin, (2013) Development of Rainfall Model using Meteorological Data for Hydrological Use. *International Journal of Integrated Engineering* 5 (1)
- Haron, N. F., Tahir, W., & Koon, L. W. (2013). Extreme Estuarine Flooding Leading to Estuary Transverse Flow Salinity Intrusion. *International Journal of Civil & Environmental Engineering*, 13(2).
- Tahir, W., Hamid, C., & Aimme, H. (2013). Flood Forecasting Using Tank Model and Weather Surveillance Radar (WSR) Input for Sg Gombak Catchment. *International Journal of Civil & Environmental Engineering*, 13(2).
- Caroline Peter and Wardah Tahir. Potential of Stagnant Water Due to Dam Flooding. International Conference on Innovation, Management and Technology Research (ICIMTR2012)
- Aminuddin, M.B., Zahrullaili, Y., Azinor, A.A.B., Marfiah, A.W., Faizah, K., Ismail, A., Wardah, T., Juhaizad. Study of Soil Contamination at Mangrove Island: Case Study of Carey Island. In Proceedings of 2012 IEEE 8th International Colloquium on Signal Processing and its Applications (CSPA2012), IEEE Control System Society Chapter Malaysia
- Faizah, K. Aminuddin, M.B., Zahrullaili, Y., Azinor, A.A.B., Marfiah, A.W., Ismail, A., Wardah, T., Juhaizad. Study of Bioindicator at Mangrove Island: Case Study of Carey Island for 2012 IEEE Symposium on Business, Engineering & Industrial Applications.
- Sh. Huda Sy Yahya, Wardah Tahir, Sayang Md Deni and Suzana Ramli. Improved Estimation of Radar Rainfall bias using a Kalman filtering approach: Case Studies Klang River Basin for 2012 IEEE Symposium on Business, Engineering & Industrial Applications.
- Badrul Nizam Ismail, Mohd Afiq Harun, Muhammad Hazizi Jamal and Wardah Tahir. Sedimentation Analysis of Fine Particles Via Digital Image Processing: a Greyscale. International Conference on Intelligent & Advanced Systems, ICIAS 2012
- Wardah, T., Sharifah Nurul Huda, S. Y., Deni, S.M., and Nur Azwa, B (2011) Radar Rainfall Estimates Comparison with Kriging Interpolation of Gauged Rain. *International Colloquium of Humanities, Science and Engineering, IEEE*, Penang, 5-6 Dec 2011
- Wardah, T., Ahmad Kamil, A., and Sahol Hamid, A.B., (2011) Quantitative Precipitation Forecast using MM5 and WRF models for Kelantan River Basin. *International Conference of Sustainable Water Resources and Management*, Venice 28-30 Nov 2011
- Suzana, R., Wardah, T., and Sahol Hamid, A.B., (2011) Radar Hydrology : New Z/R Relationships for Klang River Basin Malaysia based on Rainfall Classification. *International Conference of Sustainable Water Resources and Management*, Venice 28-30 Nov 2011
- Suzana, R. and Wardah, T., (2010) Radar Hydrology: New Z/R Relationships for Quantitative Precipitation Estimation (QPE) in Klang River Basin, Malaysia. *International Journal of Environmental Science and Development*, Vol 2. No.3 June 2011
- MRM Adib, M.B. Saifullizan, T. Wardah, D. Rokiah and A. Junaidah., Flood Inundation Modeling for Kota Tinggi Catchment by Combination of 2D Hydrodynamic Model and Flood Mapping Approach. *Lowland Technology International*, Vol 13, No. 1, 27-35, June 2011
- MRM Adib, A. Junaidah., T Wardah. Flood Estimation Studies using HEC-HMS for Johor River, Malaysia. *Journal of Applied Sciences*. 18028-JAS-ANSI. 2010
- Wardah T., Sahol Hamid A. B. and Maznorizan M. *Intense Convective Rain Estimation Using Geostationary Meteorological Satellite*. Advances in Geosciences, Hydrological Sciences Vol. 29. World Scientific Publishing (2009)
- Wardah, T., Aminuddin, M.B., Zahrullaili, Y., Azinor, A.A.B., Marfiah, A.W., Faizah, K., Ismail, A., and Juhaizad. *Assessing the Level of River Pollution Using the Bioindicators : Case Study of Carey Island Mangrove Areas*. In Proceeding of International Seminar on Wetlands and Sustainability, Kota Kinabalu Sabah, 26-28 June 2009
- Wardah, T. , Zaidah, I. and Suzana, R. *Geostationary Meteorological Satellite-Based Quantitative Rainfall Estimation(GMS-Rain) for Flood Forecasting* . Malaysian Journal of Civil Engineering 21(1) : 1- 16 (2009)

- Wardah, T., Abu Bakar S. H., und Bardossy, A., Maznorizan M. *Use of Geostationary Meteorological Satellite Images in Convective Rain Estimation for Flash-Flood Forecasting*. Journal of Hydrology (2008) 356, 283– 298. Elsevier publication (2008)
- Nuratifah, Z., Abd Manan, S and Wardah, T. 2007. *Satellite Imagery and GIS Application in NRCSS Model*. Bulletin GIS, JPDSN Bil 1/2007
- Wardah, T., Sahol Hamid, A.B., and Bardossy, A. Multi-sensor Data Inputs for Flood Forecasting. *Proc. Annual Mekong Flood Forum 5 (AMFF5)*, Ho Chi Minh, Vietnam. (May 2007)

7 OTHER PUBLICATIONS

Book Introduction to Sustainable Campus Initiatives.	University Publication Centre, UiTM	2011
Book ISFRAM 2014 (Editor) ISFRAM 2015 (Main editor)	Springer, Singapore	2014 2015
Textbook Fluid Mechanics and Hydraulics	University Publication Centre, UiTM	2010
Manual OBE Assessment Guideline for Civil Engineering Programme	FCE UiTM	2012
Chapter in Book An Expert System Prototype of Design Flood Estimation Techniques <i>Wardah Tahir and Zaidah Ibrahim</i>	Water Environmental Planning IIUM	2004
FCE Student Handbook - for undergraduate and postgraduate students of Civil Engineering Faculty	FCE Website	2016
Newspaper Article Banjir Kuning Bagai Tsunami Ancam Kelantan	Newspaper Article Berita Harian	17 th . January, 2015
Newspaper Article Kajian Awal Kemusnahan Banjir	Newspaper Article Utusan Malaysia	19 th . January, 2015
Newspaper Article Kesiapsiagaan Menghadapi Banjir	Newspaper Article Utusan Malaysia	2014
Newspaper Article DeFlood GS Bantu Bina Struktur Hidraulik	Newspaper Article Utusan Malaysia	2004
Newspaper Article DeFlood GS Bantu Jurutera	Newspaper Article Metro Ahad	2004
Newspaper Article UiTM Bukti Unggul	Newspaper Article Harian Metro	2004
Newspaper Article Inventions that Do Us Proud	Newspaper Article News Straits Times	2004
Magazine Article Penyelidik dan Pendidik Kerjaya Seiring	Magazine Article di Majalah Nur	November 2003
Magazine Article DeFlood Mengatasi Masalah Banjir	Magazine Article Majalah Dewan Pelajar	September 2003
Magazine Article Perisian DeFlood Basmi Banjir Kilat	Magazine Article Majalah Dewan Kosmik	September 2003

8 RESEARCH

National Research Grants

	Research Project	Source	Total Funds (RM)	Duration
1	Flash Flood Potential Index for Highly Urbanized Tropical City Based on Statistical Multi-Criteria Analysis (600-IRMI/FRGS 5/3 (054/2019))	FRGS	82,000	2019-2021
2	Cloud Microphysics and Cumulus Parameterization Schemes of the WRF for Intense Rainfall Episodes Forecast (600-RMI/FRGS 5/3 (138/2015))-Principal	FRGS	68,200	2015-2019
3	Governance for Disaster Risk Reduction: A Holistic Flood Risk Management (HFRM) System for Malaysia	TRGS Flood (MOHE)	48,700	2015-2016
4	Numerical Study on Dam Flood Routing Map with Stagnant Water Condition : Principal	FRGS	80,000	2012-2016
5	Characterisation of Estuarine Salinity Convergence	RAGS	80,000	2012-2015
6	The Interaction between Groundwater and River Water along Langat River, Selangor Malaysia	FRGS	87,270	2012-2014
7	Novel Techniques in Hydro-Meteorological Flood Monitoring using Weather Radar and Geostationary Meteorological Satellite : Principal	e-Science	98,000	2009-2011
8	Development of an Intelligent Flood Warning System and Inundation Model for selected catchment in Peninsular Malaysia	e-Science	145,000	2008-2010
9	Study of the Level of Contaminations at Mangrove Island : Case Study of Pulau Carey	FRGS	60,000	2007-2009

UiTM Excellence Research Fund

	Research Project	Total Funds (RM)	Duration
1	Quantification of Radar Precipitation Estimates (QPE) 600-IRMI/PERDANA 5/3/MITRA (004/2018)-1	22,100	2018-2020
2	Error Analysis in Doppler Radar Rainfall Estimation for Monsoon Season	32,000	2012-2014
3	Performance Characteristics Study of Local Plants Potential in Urban Storm Water Management	7,000	2010-2012
4	Empirical Statistical Downscaling of Numerical Weather Prediction (NWP) Model products for Quantitative Precipitation Forecast : Principal	8,000	2010-2012
6	Radar Hydrology : New Z/R Relationship for Quantitative Precipitation Estimation in Klang River Basin	4,600	2010-2011

7	Hydro-meteorological Flood Simulation Integrating radar Rainfall with Infoworks RS and GIS Analysis	4600	2010-2011
8	Application of GIS and Infoworks for Flood Prediction	10,000	2004-2005
9	The Effect of Land Use Changes on Flood Occurrence in an Urban Drainage using GIS	10,000	2004-2005
10	Synthetic Flood Hydrograph and the Enhancement of DeFlood Software: Principal	10,000	2002-2003
11	Bed Sediment for Malaysian Rivers	20,000	2000-2001
12	The Revision of Regional Flood Frequency Analysis and the Development of Design Flood Estimation Software for Peninsular Malaysia (DeFlood): Principal	9500	2000-2001

Industrial Research Funds

	Research Project	Source	Total Funds (RM)	Begin Year
1	Sustainable Campus	UNESCO-IHP (SKUM)	40,000	2010-2011
2	Water Quality Project for Sg Muar	DID	298,018	2012-2012
3	Best Management Practice in Stormwater Management	CIDB	348,000	2006-2007

9. CONSULTANCY

Contract research-based

<i>Funding Institutions</i>	<i>Projects Title/Contract</i>	<i>Amount of Grant (RM)</i>	<i>Date</i>
Drainage and Irrigation Department	Sustainable Campus - Project Chairperson	20,000	JUN 2010
Drainage and Irrigation Department	Manual for Education and Awareness for Youth Leader in Water Resources.- Project Chairperson	10,000	DEC 2010
Photronix Technologies (M) Sdb Bhd	Hill Slope Early Warning and Fibre Optic Integration System - Member	NA	JUL 2005

Consultancy work from Industry

<i>Funding Institutions</i>	<i>Projects Title/Contract</i>	<i>Amount of Grant (RM)</i>	<i>Duration</i>	<i>Contribution</i>
ZHL CONSULTANT SDN BHD	National Flood Forecasting And Warning System For Zone 3- Radar Rainfall Analyzer and Integrator (RRAI) for Malaysia	300,000	NOV 2020- NOV 2021 2016	Radar rainfall Expert/Hydrologist (Principal)
SERVISED A SDN BHD	Study And Research To Improve Rainfall Estimates And Forecasts For Sustainable Water Resource Management For The State Of Selangor	30,000	2018-2019	Radar rainfall analysis (Principal)
SERVISED A SDN BHD	Development Of An Extended Luas Intelligent Support System For Sustainable Water Resource Management For Sungai Langat	30,000	2018-2019	Radar rainfall analysis (Principal)
TENAGA NASIONAL BERHAD	Kursus Hydrological Investigation For Hydropower Development	23,400	2018	Speaker on Hydrology Topics (Member)
DRAINAGE AND IRRIGATION DEPARTMENT	Pelan Pengurusan Lembangan Sungai Bersepadu (Irbm) Sungai Skudai, Johor Bahru	51,000	2018-2019	Hydrologist (Member)
SERVISED A SDN BHD	Debris And Mud Flow Warning System 2	12,000	2018	Radar rainfall and NWP analysis (Principal)
ILTIZAM PERUNDING SDB BHD	National Flood Forecasting And Warning System For Pahang River Basin	50,000	JAN-DEC 2016	Radar rainfall and NWP analysis (Principal)
RBM CONSULTANT SDN BHD	National Flood Forecasting And Warning System For Kelantan River Basin	25,000	JAN-DEC 2016	Radar rainfall and NWP analysis (Principal)
ZHL CONSULTANT SDN BHD	National Flood Forecasting And Warning System For Kelantan River Basin	40,000	JAN-DEC 2016	Radar rainfall and NWP analysis (Principal)
SI PROTECH SDN BHD/JPS MALAYSIA	Atmospheric Model Rainfall Flood Forecasting (Amrff)	15,000	DEC 2012- AUG 2013	Radar rainfall analysis (Principal)
PUNCAK NIAGA (M) SDN BHD	Penyediaan Buku 'The History Of Water In Malaysia'	46,000	JUL-OCT 2010	Writing chapter of book – History of Water in Malaysia (Member)

10. EXAMINER/PANEL/INVITED SPEAKER

External Examiner (MSc) Siti Najja binti Mohd Zad @ Mohd Yazid Assessing Satellite-based Rainfall (SBR) Products for Improved Model Predictions of Rice Yield	Universiti Putra Malaysia	2020
External Examiner (PhD) Syed Muzzamil Hussain Shah_Hydrodynamic Instabilities of Partially Submerged Vehicle in Low-Lying Flood Prone Regions	Universiti Teknologi Petronas	2019
Internal Examiner (PhD) Zamsalwani Zamri Effects of Non-Migrating Mid-Bar to Lateral Migration	Universiti Teknologi Mara	2018
External Examiner (MSc Research) Muhammad Shaheed Bin Shammodin Estimation Of Spatial Pattern Changes Affected From Flood Based On Public Information Map Using ARCGIs:	Universiti Islam Antarabangsa	2018
External Examiner (MSc Research) Mohammad Faizalhakim Bin Ahmad Shafuan Climate And Land Use Changes In Relation To Runoff Variability Using In Kelantan River Basin SCS-CN And GIS	Universiti Putra Malaysia	2017
Invited Speaker Outcome-based Education (OBE) Curriculum Colloquium Series: Assessment of Affective and Psychomotor Domain	Institute for Leadership Development (ILD)	27 May 2016
External Examiner (MSc Research) Nur'atiah bt Zaini Title: Hybrid Support Vector Machine-Particle Swarm Optimization in Short Term River Flow Forecasting at Upper Bertam Catchment, Cameron Highlands	Universiti Tenaga Nasional (UNITEN)	April 2016
Internal Examiner (PhD) Taha Ali A.Ben Musa - Development of Flat Sheet Ultrafiltration Membrane for Heavy Metals Removal from Automobile Industrial Wastewater	Institute of Graduate Studies, UiTM	April 2016
Internal Examiner (PhD) Mohd Sofiyan bin Sulaiman: Transport of bed load sediment in the presence of stable clast	Institute of Graduate Studies, UiTM	April 2016
Invited Panel ASEAN Technical Workshop on Satellite Based Rainfall Estimation (PERSIANN)	ASEAN Studies Center, Chulalongkorn University and UNESCO IHP	1-2 Oct, 2015
Invited Speaker Laporan Kajian Banjir Kelantan 2014: Faktor, Impak dan Solusi(<i>Report on Kelantan Flood 2014 : Factors, Impact and Solution</i>)	Mesyuarat Majlis Tindakan Persekutuan Negeri Kelantan di Bangunan Parlimen, Kuala Lumpur	11 Jun, 2015
Panel Speaker Seminar on Ensuring Climate Resilience of Buildings and Infrastructure	Construction Industry and Development Board (CIDB)	7 April, 2015
External Examiner (MSc Research) Manal Osman Mohamed Ali - Experimental Study of Irrigation Uniformity of Solid-Set Sprinkler Irrigation under Low Pressure System	Universiti Teknologi Petronas (UTP)	February 2015
Internal Examiner (MSc Research) Zul Hilmi Saidin Sustainable Phytoremediation System for Macronutrients Removal from Domestic Wastewater	Institute of Graduate Studies, UiTM	February 2015

Supervisory Committee (PhD) Ali Seifaddini– Development of a Real-Time Rainfall Distribution for Flood Early Warning using Weather Radar Data	Universiti Pertanian Malaysia (UPM)	2014-2017
Keynote Speaker Kem Pemimpin Muda Prihatin Air	UNESCO-IHP Ecohydrology Programme	19 August 2014
External Examiner (MSc Research) Nurul Ashikin Othman Title : Cross-Spectral Analysis of Metocean Parameters for Malaysian Water	Universiti Teknologi Petronas (UTP)	June 2014
CDIO Trainer for participants from Malaysia universities	CDIO UiTM	8 July – 13 Nov, 2013
Internal Examiner (MSc Research) Mohd Rizal Shukor : Critical Bed Load Transport Zones in the Presence of Stable Clast	Institute of Graduate Studies, UiTM	June 2013
Invited Speaker Talk Series – UNESCO-IHP, Malaysian Hydrological Society and DID	UNESCO-IHP, Malaysian Hydrological Society and Drainage and Irrigation Department	19 Oct, 2012
Invited Speaker World Flood Disaster Management Conference	Red Carpet Events PTE LTD Singapore	26-27 April, 2012
Panel Consultant Manual for Education and Awareness on Integrated Water Resources Management	UNESCO-IHP Malaysia	Nov, 2010

11. POSTGRADUATE SUPERVISION

<i>(Post Degree)</i>	<i>Research Title and Student's name</i>	<i>Status</i>
PhD	Microphysics And Cumulus Parameterization Schemes Of WRF For Intense Rainfall For Flood Forecasting <i>Aisar Ashra (2015539815)</i>	On-going
PhD	The Influence Of Partial Protruding Cobbles To The Steadiness Of Sand-Gravel Bed River <i>Mohd Rizal Shukor (2014866842)</i>	On-going
PhD	Hydro-Meteorological Flood Forecasting By Using Numerical Weather Prediction (NWP) Model Product <i>Intan Shafeenar Ahmad Mokhtar (2013867956)</i>	On-going
PhD	Enhanced Flood Forecasting With Impact Of Land Use Change Using Radar Based Quantitative Precipitation Estimation (QPE) <i>Salwa Ramly (20125964909)</i>	Completed
PhD	Shallow Water Modelling Of Transverse Flow Salinity Intrusion In Estuarine System During Extreme Flood Event <i>Nuryazmeen Farhan Binti Haron</i>	Completed
PhD	Application Of Soil On Surface Runoff In Humid Tropical River Basin <i>Khairi Khalid (2011659876)</i>	Completed
PhD	Numerical Simulation Of Dam Failure Flood Map In Relation To Stagnant Water <i>Caroline Anak Peter Diman (2010383151)</i>	On-going
PhD	The Impact Of Anthropogenic And Climate Changes On The Hydrological Response Using Geospatial Approaches And Hydrological Modelling : <i>Zuraini Basarudin (2010425244)</i>	On-going
PhD	Quantitative Precipitation Estimation Using Radar Rainfall Input For Klang River Basin <i>Suzana Binti Ramli (2009432668)</i>	Completed
PhD	Development Of Rainfall Model For Flood Level Simulation Incorporating Tidal Effects For Sg Johor Malaysia <i>Mohd Adib Mohammad Razi (2008262972)</i>	Completed
PhD	Developing Hydroinformatics Model-Integration Of Hydrodynamic, Hydrology And Environmental Approaches <i>Jurina Binti Jaafar (2006142547)</i>	Completed

MSc (Research)	Gis-Based Water Management Analysis for Oil Palm Plantation <i>Siti Hajar Binti Md Nor Azam Id 2015751947</i>	On-going
MSc (Research)	The Use of Total Maximum Daily Load (Tmdl) In Maintaining River Water Quality <i>Faridah Mohd Razelan Id 2015128059</i>	Completed
MSc (Research)	Improved Estimation of Radar Rainfall Using Multivariate Kalman Filtering Approach. <i>Sh Huda Sy Yahya Id 2009595643</i>	Completed
MSc (Research)	Streamflow Prediction Using Non-Parametric Regression Methods At Pahang River Catchment <i>Dewi Anneka Binti Halid 2010386419</i>	Completed
MSc (Dissertation)	Rainfall Spatial Interpolation Using Kriging Method for Pahang River Basin <i>Nurul Athirah Shariffudin (2014908705)</i>	Completed
MSc (Dissertation)	Studies of Sorption and Reuse of Anionic Clay for Removal of Textile Dye <i>Syahidah Ghazali (201349917)</i>	Completed
MSc (Dissertation)	Estimation of Design Rainstorm of Rural and Urban Area Using Gumbel's and Log-Pearson Type Iii Method <i>Nur Liyana Mohd Razali (2012979167)</i>	Completed
MSc (Dissertation)	The Efficiency of Kenaf Current Plantation Method and Quantifying Effects of Soil Conditions On Kenaf Growth In East Coast Malaysia <i>Izzian Izzuddin (2011560201)</i>	Completed
MSc (Dissertation)	Water Quality Assessment for Penchala River <i>Adam Afiq Bin Irwan (2012645218)</i>	Completed
MSc (Dissertation)	Velocity Pattern Variation in Estuary Using Particle Imaging Velocimetry <i>Natasya Anom Bte Sheikh Aladin (2012628472)</i>	Completed
MSc (Dissertation)	Muar River Simulation by Using Infoworks Rs (Double Degree Project) <i>Muhammad Farid Muhammad Fathullah (2012680048)</i>	Completed
MSc (Dissertation)	Estimation of Design Rainstorm of Main Region in Sabah <i>Nadhyayuexmy Amin (2011217828)</i>	Completed
MSc (Dissertation)	Hydro-Meteorological Flood Forecasting Using Tank Model with Satellite Based Rainfall Input for Kemaman River Catchment, Terengganu <i>Ahmad Tarmizi Bin Mat Taib (2010900765)</i>	Completed
MSc (Dissertation)	Threshold Rainfall Value for Landslide Triggers in Ulu Klang Area <i>Nur Shaeza Darus (2010450076)</i>	Completed
MSc (Dissertation)	Development of Hydro-Meteorological Flood Forecasting Model Using Tank Model and Radar Input for Sg Gombak, Selangor <i>Hafizul Aimme Che Hamid (2010493282)</i>	Completed

12. AWARDS AND ACHIEVEMENTS

- Potentially Commercialized Product award by Institute of Research, Development and Commercialization, Universiti Teknologi MARA (November 2001)
- Gold Award in Exhibition on Invention and Innovation from Ministry of Science , Technology and Environment, Malaysia (December 2002)
- Gold Award with Congratulations from Jury, in Exhibition on Invention and Innovation, Geneva, Switzerland (March 2004)
- Excellent Scientist Award by the Ministry of Higher Education, Malaysia (2004)
- Innovation Award by the Bank Islam Malaysia Berhad-IID (Dec 2004)
- Gold Award , Invention, Innovation and Design UiTM 2008
- Gold Award, International Invention, Innovation and Technology Exhibition ITEX 2008
- INPEX Excellent Award, Pittsburgh USA, 2008
- BRONZE AWARD in Trade Fair "Ideas - Inventions - New Products" IENA Nuremberg, Germany , 2008 : Rainwatch – Rainfall Monitoring for Flood Forecasting using Metsat and Radar
- GOLD AWARD in International Invention, Innovation and Technology Exhibition ITEX : GMSRain-Geostationary Meteorological Satellite Rainfall, 2008
- Gold Award , Invention, Innovation and Design UiTM, 2009: SatelliteRAIN- Satellite Based Rainfall Estimation
- Bronze Award : Seoul International Invention Fair , SIIF Korea, 2009 : SatRAIN- Satellite Based Rainfall Estimation
- First Prize : , Invention, Innovation and Design FCE UiTM Innovation Category, 2010
- GOLD AWARD in Invention, Innovation and Design (IID) UiTM , 2017 : OBE 3C – System measuring students’ attainment
- GOLD AWARD in Invention, Innovation and Design (IID) UiTM , 2018 – MYIIP Systems: Using Bloom’s Taxonomy to Enhance 21st Century Skills towards IR4.0
- GOLD AWARD in International Invention, Innovation and Technology Exhibition ITEX : MYIIP Systems: Using Bloom’s Taxonomy to Enhance 21st Century Skills towards IR4.0
- GOLD AWARD in Invention, Innovation and Design (IID) UiTM 2020 – Radar Rainfall Estimation System

13. INNOVATION IN TEACHING AND LEARNING

PROJEK	PERANAN (role)	TAHUN (year)
DeFlood GS Software Application	Inventor to software on design flood estimation for Peninsular Malaysia used by Engineering Hydrology students	2010
MyCOPO- A software measuring students’ outcome attainment	Developing a system to measure students’ outcome	2011
OEL- Implementation of Open-ended Lab	Mobilising the implementation of Open-ended Laboratory teaching and learning	2009
e-FYP dan e-Dissertasi	Developing online final year project evaluation	2011
Master Double Degree	Involved in developing double master degree in Water Resources Engineering	2013
Master Eksekutif	Involved in developing master executive mode	2013

14.. PATENT

DeFlood GS – Design Flood Estimation Guidance System