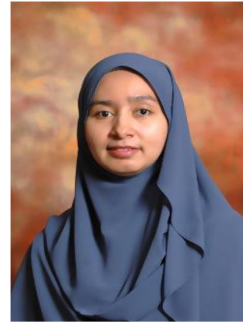


## CURCULUM VITAE



### A. **PERSONAL DETAILS**

1. Name : Ts. Irma Noorazurah Binti Mohamad
2. Date of Birth : 29 SEPT 1984 Place: Merlimau, Melaka
3. Sex : Female
4. Office Address : Faculty of Civil Engineering, Universiti Teknologi MARA, 40450 Shah Alam, Selangor, Malaysia
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Google Scholar

<https://scholar.google.com.my/citations?user=2ItSxEcAAAAJ&hl=en>



<http://prisma.uitm.edu.my/prisma/?doit=DirectoryStafByIdDetail&staffid=Vmtaa2QxWnRWa1ZXVkJaT1IYcEdSbGxZY0VaTIZUbFNVRIF3UFE9PQ>

Scopus®

<https://www.scopus.com/authid/detail.uri?authorId=26421759700>

### B. **ACADEMIC QUALIFICATION**

- 2007-2008 Master of Engineering (Civil-Hydraulic and Hydrology)  
Universiti Teknologi Malaysia (UTM),  
81310, Skudai, Johor Bahru, Johor.
- 2003-2007 B. Eng. (Hons) in Civil Engineering  
Universiti Teknologi Malaysia (UTM),  
81310, Skudai, Johor Bahru, Johor.

### C. **PROFESSIONAL MEMBERSHIP**

Professional Technologist – Malaysia Board of Technologists (MBOT)

Graduate Technologist – Malaysia Board of Technologists (MBOT)  
Graduate Engineer – Board of Engineers, Malaysia (BEM)  
Graduate Member – The Institution of Engineers, Malaysia (IEM)

D. **WORKING EXPERIENCE**

Aug 2016 – <b>Now</b>	Senior Lecturer - Department of Water Resources and Environmental System, Faculty of Civil Engineering, Universiti Teknologi MARA (UiTM), 40450 Shah Alam, Selangor.
Jan 2009 – Aug 2016	Lecturer - Department of Water Resources and Environmental System, Faculty of Civil Engineering, Universiti Teknologi MARA (UiTM), 40450 Shah Alam, Selangor.
July 2008-Dec 2008	Research Officer (RO) - Department of Hydraulics and Hydrology, Faculty of Civil Engineering, Universiti Teknologi Malaysia (UTM), 81310 Skudai, Johor.
Dec 2007-April 2008	Teaching Assistant (TA) - Department of Hydraulics and Hydrology, Faculty of Civil Engineering, Universiti Teknologi Malaysia (UTM), 81310 Skudai, Johor.

E. **TEACHING AND SUPERVISION**

**Teaching at Undergraduate Level:**

- 1) KJA 523 Water and Wastewater Engineering
- 2) ECW 422 Fluid Mechanics
- 3) ECW 411/435 Hydraulics
- 4) ECW 421/437 Hydraulics Laboratory
- 5) ECW 431/557 Engineering Hydrology
- 6) ECW 512 Environmental Engineering Laboratory
- 7) ECW 502 Elements of Environmental Engineering
- 8) ECW 542 Wastewater Engineering

**Supervision at Undergraduate Level:**

Supervision takes place widely on water quality assessment, non-water revenue, rainwater harvesting system and any study related to water resources and environmental systems. Lists of students as follows:

- 1) "Flood Forecasting by Using HEC-HMS 4.2.1 in Johor River". Fatin Athirah Palompok. Universiti Teknologi MARA (UiTM). 2017 -2018.
- 2) "Estimation on Suspended Sediment Discharge Analysis in Tidal River". Nurul Faieqah Athirah Ahmad. Universiti Teknologi MARA (UiTM). 2017 – 2018.
- 3) "Planform Geometry Analysis of Meandering Tidal River". Dg Wannerhalin Abdul Munir. Universiti Teknologi MARA (UiTM). 2016 – 2017.
- 4) "Water Quality and Heavy Metal Contamination Analysis in Tide Dominated Sungai Klang". Nurul Aqila Shafiqa Mohd Towab. Universiti Teknologi MARA (UiTM). 2016 – 2017.
- 5) "Physical Model of River Meander by Using Sand Channel". Nurul Syuhada Yong. Universiti Teknologi MARA (UiTM). 2016 – 2017.
- 6) "Environmental Effects of Pesticides Used in Plantation Activities". Noor Azilah Daud. Universiti Teknologi MARA (UiTM). 2012 – 2013.
- 7) "Relationship between Sediment Rate and Flow Discharge in Langat River, Selangor". Muhd Syukur Hussain. Universiti Teknologi MARA (UiTM). 2012 – 2013.
- 8) "Cafeteria Waste Separation and Organic Composting at Universiti Teknologi MARA". Nur Aliah Mohd Khairi. Universiti Teknologi MARA (UiTM). 2012 – 2013.
- 9) "A Study of the Relation of land Use Type to Urban Storm Water Quality". Wan Norfazila Wan Hamid. Universiti Teknologi MARA (UiTM). 2012 – 2013.
- 10) "A Study on Water Quality and Eutrophic Level of Pond Seksyen 7, Shah Alam". Che Noryusmaniza Che Soh. Universiti Teknologi MARA (UiTM). 2012 – 2013.
- 11) "An Investigation of Hydraulic Jump as Energy Dissipater". Noor Hazwani Abd Ghani. Universiti Teknologi MARA (UiTM). 2012 – 2013.
- 12) "Rainwater Harvesting Model in UiTM Puncak Alam". Ahmad Hairi Alias. Universiti Teknologi MARA (UiTM). 2011 – 2012.
- 13) "Water Hardness and Level of Mineral in Tap water, Filtered Water and Well Water". Norayunaini Azmi. Universiti Teknologi MARA (UiTM). 2011 – 2012.
- 14) "Study on Factors Affecting of Eutrophication Process". Abdul Muhaimin Mahasan . Universiti Teknologi MARA (UiTM). 2011 – 2012.
- 15) "Effects of Root System on the Shearing Strength". Nurhidayah Aqilla Zaharuddin. Universiti Teknologi MARA (UiTM). 2011 – 2012.
- 16) "Flood Modeling and Simulation of Sungai Langat Using HEC-HMS 3.5". Ahmad Zulfadhli Abu Hasan. Universiti Teknologi MARA (UiTM). 2011 – 2012.
- 17) "An Investigation on the Effectiveness of Aquatic plants in Removing Nutrients: Case Study of Pond at Section 9, Shah Alam". Shahirra Sharul Asmawi. Universiti Teknologi MARA (UiTM). 2010 – 2011.
- 18) "An Investigation of the Applicability of SODIS Treat Harvested Rainwater for Potable Usage". Leonara Anak Jack. Universiti Teknologi MARA (UiTM). 2010 – 2011.
- 19) "A Study on the Eutrophication Level of the Lake at Taman Rekreasi Seksyen 7, Shah Alam". Zulzahar. Universiti Teknologi MARA (UiTM). 2010 – 2011.

- 20) "Water Quality of Rainwater Harvesting System for Non-Potable Uses". Muhammad Fitri Abdul Rashid. Universiti Teknologi MARA (UiTM). 2010 – 2011.
- 21) "A Study on the Water Quality Characteristics in Water Distribution System of Residential Area at Kuantan, Pahang". Kamariah Kamaruddin. Universiti Teknologi MARA (UiTM). 2010 – 2011.
- 22) "An Investigation of Water Losses in Water Distribution System at UiTM Shah Alam". Zainab Ab. Wahab. Universiti Teknologi MARA (UiTM). 2010 – 2011.
- 23) "A Potential of Rainwater for Non-Potable Usage in Rose Villa, UiTM, Shah Alam". Wan Syarizawani Wan Chik. Universiti Teknologi MARA (UiTM). 2010 – 2011.
- 24) "A Study on Water Consumption Behaviour in Different Type of Buildings in UiTM, Shah Alam". Yusof Hashim. Universiti Teknologi MARA (UiTM). 2010 – 2011.
- 25) "A Study on Quality of Rivers Receiving Sewage Treatment Plant Effluent". Nor Azliza Osman. Universiti Teknologi MARA (UiTM). 2010 – 2011.
- 26) "Analysis on Suspended Sediment Concentration by Different Type of Land Use". Siti Adila Zainon. Universiti Teknologi MARA (UiTM). 2009 – 2010.
- 27) "A Laboratory Study on Determination of Hydraulic Characteristics by Using Different Aquatic Plants". Lukman Hamid. Universiti Teknologi MARA (UiTM). 2009 – 2010.
- 28) "Analysis on Bedload Sediment Concentration in Natural River". Mohamad Fahmi Mohamad Hilmi. Universiti Teknologi MARA (UiTM). 2009 – 2010.
- 29) "Water Quality Monitoring at Stormwater Control System". Mohd Shahizul Md Sabudi. Universiti Teknologi MARA (UiTM). 2009 – 2010.
- 30) "Evaluation on the Effectiveness of On-Site Detention Pond in Controlling Stormwater". Saiful Azzam Ahamad Dusuki. Universiti Teknologi MARA (UiTM). 2009 – 2010.
- 31) "A Study on Effectiveness of On-site Detention pond as Sedimentation Controlling Measures". Ahmad Syarafi Mohd. Universiti Teknologi MARA (UiTM). 2009 – 2010.
- 32) "Comparative Study of Water Consumption on Different Types of Building: Case Study at UiTM Puncak Perdana". Azwandy Mohamad. Universiti Teknologi MARA (UiTM). 2009 – 2010.
- 33) "A Study on Water Losses and Leakage Problem in Water Distribution Network: Case Study at UiTM Puncak Perdana". Nor Azliani Hasan Bakhari. Universiti Teknologi MARA (UiTM). 2009 – 2010.
- 34) "The Assessment of Water Quality at Sungai Rasau, Selangor". Mohd Nizam Ahmad Tarmizi. Universiti Teknologi MARA (UiTM). 2009 – 2010.
- 35) "Water Quantity and Quality Management Using Stormwater Detention Pond". Mohd Farhan Ngadan. Universiti Teknologi MARA (UiTM). 2009 – 2010.
- 36) "The Assessment of Water Quality at Klang River, Selangor". Mohd Hamidi Abd Majid. Universiti Teknologi MARA (UiTM). 2009 – 2010.
- 37) "Estimation on Sediment Accumulation in Detention Pond". Mohd Shafiq Mohd Sakri. Universiti Teknologi MARA (UiTM). 2009 – 2010.
- 38) "Assessment of Water Quality at Sungai Klang". Nik Mohd Azamuddin nik Mohd Nasir. Universiti Teknologi MARA (UiTM). 2009 – 2010.
- 39) "Modelling of Flood Events in Wilayah Persekutuan Kuala Lumpur". Norleen Binti Ab. Hamid. Universiti Teknologi MARA (UiTM). 2008 – 2009.

- 40) "Drinking Water Quality Fluctuation Analysis for Urban Area". Nor Fadhilah Mohd Salleh. Universiti Teknologi MARA (UiTM). 2008 -2009.

#### F. **RESEARCH WORKS**

- 1) Characterisation of Estuarine Salinity Convergence. (Principal Researcher)  
Source: RAGS (600-RMI/RAGS 5/3 (196/2012)  
Total Funds: RM 80,000.00  
Begin Year: 15 December 2012  
End Year: 14 December 2014
  
- 2) Best Management Practices in Integrated Water Resources – Sustainable Campus  
Source: IHP-UNESCO & SKUM  
Total Funds: RM 20,000.00  
Begin Year: 2010  
End Year: 2011
  
- 3) Leak Detection and Water Loss Study in Universiti Teknologi MARA Distribution Network. (Principal Researcher)  
Source: UiTM Research Grant  
Total Funds: RM 7,000.00  
Begin Year: 15 June 2009  
End Year: 18 April 2011

#### G. **CONSULTANCY WORKS**

- 1) Kursus Hydrological Investigation For Hydropower Development – Tenaga Nasional Berhad (TNB). As Consultant. Year 2018.
- 2) Penyediaan Kajian Berkenaan Dengan Aktiviti Rekreasi Air dan Caj Berkaitan Bagi Penyediaan Peraturan Aktiviti rekreasi Air Lembaga Urus Air Selangor (LUAS). Year 2012. Amount RM 48,499.00
- 3) Latihan Amali Kejuruteraan untuk Open University Malaysia (OUM). Year 2011. Amount RM 300.00
- 4) Best Management Practices in Sustainable Campus with Jabatan Pengairan & Saliran (JPS), UNESCO-IHP. Year 2010. Amount RM 20,000.00.
- 5) Latihan Amali Makmal untuk Open University Malaysia (OUM). Year 2010. Amount RM 1,440.00
- 6) The 14th International Rainwater Catchment Systems Conference 3 – 5 September 2009 –NAHRIM. As rapporteur. Year 2009. Amount RM 7,000.00
- 7) Sewage Treatment Plant Optimization –IWK. As Consultant. Year 2009. Amount RM 79,032.00

## H. PUBLICATION

### Article & Proceeding:

- 1) **Mohamad, I.N.** and Lee, W.K. (2018). Investigation of Tidal Backwater Effect in an Estuary with Idealised Meandering River. *Journal of Fundamental and Applied Sciences* 10 (6S), pp 658-668.
- 2) Yong, N. S., **Mohamad, I.N.** and Lee, W.K. (2018). Experimental Study on River Meander Planform Pattern. *International Journal of Engineering & Technology*, 7 (3.11), pp 214-217. Doi: 10.14419/ijet.v7i3.11.15965.
- 3) **Mohamad, I.N.** and Lee, W.K. (2017). An Idealized Meandering River Model for Tidal Backwater Study. *ARPJ Journal of Engineering and Applied Sciences*, Vol. 12, pp 3208-3213.
- 4) **Mohamad, I.N.** and Lee, W.K. (2016). Idealized River Meander using Improved Sine-Generated Curve Method. *Proceeding of the International Civil and Infrastructure Engineering Conference (InCIEC 2015)*. pp 125-135. Doi:10.1007/978-981-10-0155-0\_13.
- 5) Lee, W.K. and **Mohamad, I.N.** (2016). An Idealized Model of Meandering Tidal River, *Regional Conference on Science, Technology and Social Sciences (RCSTSS 2014)*, pp 113-121. Doi 10.1007/978-981-10-0534-3\_11.
- 6) Nuryazmeen, F. H., Wardah, T., **Mohamad, I.N.**, Lee, W .K, Abdullah, J., and Aladin, N.A.S. (2015). Salinity Velocity Pattern in Estuary Using PIV, *International Symposium on Flood Research and Management (ISFRAM 2014)*, pp. 221-243.
- 7) **Mohamad, I.N.** and Lee, W.K. (2014). Numerical and Laboratory Approach to the Prediction of Flood Stage in Lowland Tidal River, *Applied Mechanics and Materials*, Vol. 661, pp. 68-72.
- 8) **Mohamad, I.N.**, Zainuddin, N.S., Halip, A.A., and Karim, M.R.A. (2014). Effect of Water Pressure to Water Loss in Water Distribution Network, *International Civil and Infrastructure Engineering Conference (InCIEC 2013)*, pp. 795-803.
- 9) Lee, W.K. and **Mohamad, I.N.** (2014). Flood Economy Appraisal: An Overview of the Malaysian Scenario, *International Civil and Infrastructure Engineering Conference (InCIEC 2013)*, pp. 263-274.
- 10) Nuryazmeen, F. H., Wardah, T., and **Mohamad, I.N.** (2014). Potential of Estuary Transverse Flow Salinity Intrusion due to Extreme Estuarine Flooding, *International Civil and Infrastructure Engineering Conference (InCIEC 2013)*, pp. 343-352.
- 11) **Mohamad, I. N.**, Ali, M. F. and Kassim, J. (2012). Leak Detection and Water Loss Study in Water Distribution System in UiTM, *Malaysian Science Technology Congress, Transforming The S&T Resources For Sustainable High Income Society; Programme And Abstracts*, 19-21 November 2012, Sime Darby Convention Centre, Kuala Lumpur, Malaysia.
- 12) Shamsudin, S., Darom, A.R.M, **Mohamad, I.N.**, and Rahman, A.A. (2012). Detention Pond Sediment Accumulation Prediction using Monte Carlo Simulation, *American Journal of Environmental Sciences*. Vol. 8(1), pp. 25-34.
- 13) **Mohamad, I. N.**, Kamal, N.A., and Mohamed, N.M.H.N. (2010). The Effectiveness of Best Management Practices (BMPs) at

Construction Projects. Persidangan Kebangsaan Hidrologi & Alam Sekitar (HIDRAS). 22 – 23 Jun 2010, Batu Pahat, Johor.

- 14) Shamsudin, S., **Mohamad, I.N.**, and Rahman, A.A. (2009). Uncertainty of Sediment Load Prediction at a Detention Pond Based on Monte Carlo Simulation. *Journal of Environmental Hydrology*, Vol. 17, pp. 1-13.

### **Books:**

- 1) Wardah. T., Jalina, K., Muhammad, F. S., Siti, N. M. I., Ramlah, M. T., Norashikin, A. K., **Mohamad, I. N.**, and Mohd. F. A., (2011). Introduction to Sustainable Campus Initiatives. UPENA, UiTM. ISBN 978-967-3632-26-8
- 2) Norashikin A. K., **Mohamad, I. N.**, Fauzi, B., Wardah, T., and Hamidon, A., (2010). Fluid Mechanics and Hydraulics Laboratory Manual (OBE), 1<sup>st</sup> Edition, Faculty of Civil Engineering, Universiti Teknologi MARA. UPENA. ISBN 978-967-363-108-7

### **Review Paper:**

- 1) Assessments on the Effect of Ventilation System Associated with Children Respiratory Symptoms in Child Care Centers, 5th International Conference on Science and Social Research (CSSR2018).
- 2) Efficacy and Feasibility of Coagulation-Flocculation in Palm Oil Mill Effluent (POME) Treatment, 5<sup>th</sup> International Conference on Science and Social Research (CSSR2018).
- 3) Characteristics of Air Entrainment in Hydraulic Jump, Young Researchers for Water and Environmental Engineering Symposium (YRWEES 2017).
- 4) Analysis the Effectiveness of Existing Pond to Accommodate Storm Water Runoff in UTHM Campus, International Conference on Civil and Environmental Engineering for Sustainability (IConCEES 2017).
- 5) Parameter Governing of Wave Resonance in the Water Chamber and its Application, International Conference on Civil and Environmental Engineering for Sustainability (IConCEES 2017).
- 6) Assessment of Water Demand in Malaysia Using Water Evaluation and Planning (WEAP) System, International Civil and Infrastructure Engineering Conference (InCIEC 2013).