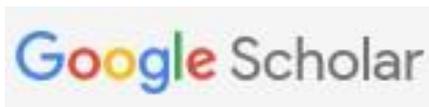


CURRICULUM VITAE



A. **PERSONAL DETAILS**

1. Name : Norashikin Ahmad Kamal (PhD)
2. Date of Birth : 23-07-1983
3. Sex : Female
4. Office Address : Faculty of Civil Engineering, Universiti Teknologi MARA, 40450 Shah Alam, Selangor, Malaysia
5. Tel: : (6) 03-55436425 (office)
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<https://scholar.google.com/citations?user=wkhV2rAAAAAJ&hl=en>



<https://uitm.pure.elsevier.com/en/persons/norashikin-ahmad-kamal>



B. **BRIEF PERSONAL HISTORY**

I am a Senior Lecturer at the Faculty of Civil Engineering, Universiti Teknologi MARA Shah Alam and currently is the Coordinator of Strategic Planning in the faculty. Beside that ,I am also being as the Auditor and Head of Research Unit in the faculty level. I am alumni of this university by virtue of having graduated with a Master in Civil Engineering, Universiti Teknologi MARA (2007). I obtained

the Bachelor of Engineering in Environmental Engineering from Universiti Malaya in Jun 2006 and PhD in Civil and Environmental Engineering from Environmental Management Research Laboratory (EMRL) , Korea Advanced Institute of Science and Technology (KAIST) in 2015. My researches are mainly focusing on the “water-energy nexus”; “physical and chemical treatment of wastewater and solid waste”, “Life Cycle and Material Flow Analysis” and “Economic Analysis”. Since 2015, I have been collaborating with the Korea Institute Disaster (KIDS), KAIST and GS E&C Company, South Korea. Until now, I still actively conducting the research projects funded by both organization. I have being appointed as University Partnership Coordinator by GS E&C to ensure the active collaboration in between GS E&C and UiTM. Other than international collaboration,I have developed a mutual research collaboration with the local researchers from Universiti Teknologi Petronas (UTP), Universiti Kebangsaan Malaysia (UKM) and Unversiti Islam Antarabangsa (UIA). Beside the active collaboration at the local and international level, I always passionate in publishing the output from my research in journals and conference proceedings . I have being actively reviews more than 30 papers since 2015 to enhance the knowledge understandings in within my expertise. Other than that, I am being involved in several projects funded by public and private institutions. I have been invited to sit as the member in conferences and seminars as well as forum panels and invited speakers by universities and government agencies. Other professional responsibilities include: Assessor, External Examiner, Member of Working Group for Standard and Panel Advisor for the various academic appointments, organization at different institutional levels

C. ACHIEVEMENTS

1. 2011:- Excellence Award as a Lecturer (University Level)
2. Awardee of PCSWMM University Grant License. Total Award :- 3999USD, Funder :- CHIWater Canada

3. **Vortexanda design as the particle removal system in the urban water infrastructure for small hydropower generation**, Invention, Innovation & Design Exposition 2017 (IIDEX2017), (GOLD Medal)
4. **Development flood peak-discharge for large, rare and extreme events using distributed hydrological modelling**, Invention, Innovation & Design Exposition 2017 (IIDEX2017), (SILVER Medal)

D. ACADEMIC QUALIFICATION

No.	Name of Institution	Degree/Qualification	Date awarded
1.	Korea Advanced Institute of Science & Technology (KAIST), Daejeon, South Korea	PhD in Civil and Environmental Engineering	2015
2.	Universiti Teknologi MARA, Malaysia	Master in Science of Civil Engineering (Water Resource)	2007
3.	University Malaya	Bachelor Degree of Environmental Engineering	2006

E. WORKING EXPERIENCE

1.	Year 2007 – 2008	Research Assitanship at Forest Research Institute of Malaysia
2.	Year 2008 until present	Senior Lecturer , Faculty of Civil Engineering, UiTM Shah Alam
3.	Year 2014 - 2015	Teaching Assistant at Civil Engineering Department, KAIST, Daejeon, South Korea

F. PROFESSIONAL QUALIFICATIONS

1. Graduate Engineer, Board of Engineers Malaysia (BEM) - Since 2009
2. Graduate Member, The Institution of Engineers Malaysia (IEM) - Since 2009

G. AREA OF RESEARCH

Water resource and environmental engineering specifically:-

- i) water - energy nexus;
- ii) physical and chemical treatment of wastewater and solid waste;
- ii) life cycle analysis and material flow analysis in relating of the urban infrastructure system and
- iii) economic analysis to evaluate the feasibility of the system to be implemented

H. **PHD THESIS**

Vortexanda design as the particle removal system in the urban water infrastructure for small hydropower generation

I. **RESEARCH GRANTS**

	Research Project	Total Funds	Begin Year	End Year
1	Team Member:- Malaysia International Cooperation Study , " Feasibility Study for BioCNG and BioLNG using GS E&C Technology on Malaysia Biomass". Value of the fund:- RM184000. Status:-Completed	RM184000	2015	2016
2	Principal Investigator of iRAGS UiTM." Effect of Photochemical Attenuation Mechanism on Major Pharmaceutical and Personal Care Products (PPCPs)" Value of the fund :- RM20000. Status :- Completed	RM20000	2015	2017
3	Team Member of "Mechanism of Particle Removal System in Urban Stormwater Infrastructure for Development of Urban Small Hydropower". Status :- Completed	RM20000	2016	2018
4	Principal Investigator of Consultation Project . " Biogas production from Palm Oil Mill Effluent (POME) by using Anaerobic Digestion". Funder :- UiTM . Satus :- Completed	RM 20000	Jan 2016	Dec 2016
5	Principal Investigator of GIP Fund, UiTM . Formulation of N- Compound and Heavy Metal Prediction and Detection using Physical River Model Status :- Completed	RM25000	2017	2019
6	Principal Investigator of BESTARI PERDANA Fund, UiTM . Establishment Mechanism of A Semi Passive Alkalinity Treatment System for Acid Mine Drainage. Status :- Ongoing	RM30000	2018	2020
7	Principal Investigator of International Fund " Analysis of Municipal Solid Waste composition in Selangor". Funder:- EMATE Engineering and GS E&C, South Korea	RM86000	2018	2019
8	Team Member of International Fund " Basic Review of Municipal Solid Waste in Selagor" Funder:- EMATE Engineering and GS E&C, South Korea	RM36000	2019	2019

9	Team Member of FRGS Fund, " Control Mechanism of Tunable Silica Grafted Carbon Quantum Dots by Heteroatoms Doping and Surface Functionalization	RM87000	2019	2021
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J. PUBLICATION

1. Nur Syazwani A Rahman * Norashikin Ahmad Kamal (2019). Removal of Pollutants of Landfill Leachate using physicochemical technique. *International Journal of Civil Engineering (IJCE)* Springer
2. **Norashikin Ahmad Kamal**, Jongseok Shin & Heekyung Park (2018). Environmental and Economic Engineering Analyses for an Urban Small Hydropower System. *Journal of Environmental Engineering and Science* . ICE Publisher
3. Nor Munirah Abdullah, Nor Sabiha Binti Mohd Aluwi, Heekyung Park & **Norashikin Ahmad Kamal** (2018). Effect of Toxicity Concentration of Waste Lubricating Oil (Hazardous Noxious Substance) on Aquatic Life. *International Journal of Engineering and Technology (IJET)*. pp 117-1202.
4. Nurul Qayyum Farahin Saidi & **Norashikin Ahmad Kamal**(2017). " Evaluation of Solid Waste Management by using Material Flow Analysis (MFA) for Waste Utilization System in Shah Alam" *Journal of Engineering and Applied Science*
5. Zulhafizal Othman, Marfiah Ab Wahid, Khuriah Abdul Hamid, Jazuri Abdullah, and **Norashikin Ahmad Kamal**.(2017) "Existence of Pharmaceutical Compounds Residue in Kerayong River, Selangor, Malaysia."
6. **Kamal,N.A.**; Shin,S. & Park,H. "Predictive Model of Parameters Validation for the Vortexanda Technique by using Fuzzy Logic and Neural Network", *Journal of Mechanical Engineering*
7. **Norashikin Ahmad Kamal**, Gooyong Lee, Sangmin Shin & Heekyung Park.(2017). Design of Stormwater Particle Removal System for Small-Scale Urban Hydropower based on the Vortex and Coandă Effects. *International Journal of Engineering and Technology (IJET)*. Volume 9. pp 295 – 403 . DOI:10.21817/ijet/2017/v9i2/170902318
8. Norlida Mohd Dom, Sharina Sulaiman, **Norashikin Ahmad Kamal**, Saerahany Legori Ibrahim, Nadiatul Ahmad Abdul Ghani, Junaidah Ariffin. (2016) Sediment Load Analysis in Lake Chini. *The Journal of Water Resources Management (JoWRM)* I Vol. 1 Number 5
9. NORLIDA MOHD DOM, SHARINA SULAIMAN, ,JURINA JAAFAR, **NORASHIKIN AHMAD**, DURATUL AIN THOLIBON, SAFWAN MUHAMAD, SAERAHANY LEGORI IBRAHIM, AZLINDA SAADON, ZAMSALWANI ZAMRI, MAY RAKSMEY, JUNAIDAH ARIFFIN.(2016) WATER QUALITY AND LAND-USE STUDY WITHIN TASIK CHINI CATCHMENT. *The Journal of Water Resources Management (JoWRM)* I Vol. 1 Number 5
10. **Kamal,N.A**, Park,H and Shin,S. (2014). Assessing the Viability of Micro Hydropower Generation from the Storm Water Flow of the Detention Outlet in an Urban Area. *Journal of Water Science &Technology :Water Supply*. doi:10.2166/ws.2014.022

11. Tahir, W. , Kassim, J. , Shukor, M.F. , Imran, S.N.M. , Tajuddin, R.M. , **Kamal, N.A.** , Mohamad, I.N. , Ali, M.F. , (2011) Introduction on the Sustainable Campus Initiative. UPENA Publication.
12. Kamal, N.A., Ariffin, J. and Rahim N.A. (2010) "Multi Layer Perceptron Model for Soil Loss Prediction due to Forest Logging". The Journal of The Institution of Engineers Malaysia Vol. 71, No. 1, pp29 – 37
13. Ariffin, J. and Kamal, N.A. (2009) "Sediment Model for Natural and Man Made Channels Using General Regression Neural Network" The Journal of The Institution of Engineers Malaysia. Vol. 69, Pg 44-58, 2008.

K. CONSULTANCY

1. Client: UNESCO HTC MALAYSIA
Year: 2016-2017
Title:- Kajian Muatam Sedimen dan Aliran Biodiversiti di Sg Chini
Deraah Pekan Pahang
Total Consultation Fund :- RM183000
2. Client: OMK PERUNDING
Year: 2018-2019
Title:- Integrated River Basin Management for Sg Skudai.
Total Consultation Fund :- RM51000