

STAFF CV (UNIVERSITI SAINS MALAYSIA)



Dr Naser Ghani

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Short Biography

Dr. Abdul Naser Abdul Ghani joined the Universiti Sains Malaysia in 1995. He obtained his BSCE from Ohio University (USA) 1986, his MSCE (Hydraulic and Hydrology) from Universiti Teknologi Malaysia, and his Ph.D. (Geotechnical Eng.) from Universiti Sains Malaysia. Prior to USM, he worked for a major consulting firm in Malaysia with specialization in civil infrastructures involving the PLUS highway, water supply dam, and drainage systems. His main area of expertise is in civil engineering infrastructures for housing and land development. He has provided professional and consulting service in road design and supervision, drainage studies and design, geotechnical studies and design as well as irrigation facilities studies and design. He has published over 100 publications in books, professional and academic journals and proceedings. His research work on earth retention systems won the CIDB (Construction Industry Development Board, Malaysia) R&D of the Year Award. He is a registered Professional Engineer with Practising Certificate (P. Eng) and also a member of the Association of Consulting Engineers Malaysia (MACEM). He is also a member of the American Society of Civil Engineers (M.ASCE). His current research works are related to resilient and sustainable civil infrastructures including material and structure for infrastructure systems. Dr Naser has completed 5 competitive research grants related to civil infrastructure as the main PI. His experience in professional practice and academic research will be useful for finding practical solutions related to engineering issues especially on road infrastructure and prevention of flood damage to infrastructures. Dr Naser is also currently (since 2019) the Dean of the School of Housing Building and Planning, Universiti Sains Malaysia.

Research Grant

Principal investigator (PI) of 8 competitive research grants and another 13 as Co-researcher.

Research Publication

More than 130+ research and professional publications in journal, chapter in books, conference proceedings. 15 most recent and relevant SCOPUS/WOS indexed publications are listed below:

1. S. Aminah M. Faiz, Abdul Naser Abdul Ghani. 2020, Impact Reduction Factors of Energy-Absorbing Rubber Support as a Component in Elastic Flooring System, International Journal Of Sustainable Construction Engineering And Technology Vol. 11 No. 1 (2020), pp. 115-124
2. Ismail, M.S.N., Ghani, A.N.A., Md Ghazaly, Z. & Dafalla, M. 2020, "A study on the

- effect of flooding depths and duration on soil subgrade performance and stability", *International Journal of GEOMATE*, vol. 19, no. 71, pp. 182-187.
3. Ying, L.K. & Abdul Ghani, A.N. 2019, "Rainfall characteristics and its effect on road infrastructure health", *International Journal of Integrated Engineering*, vol. 11, no. 9 Special Issue, pp. 234-246.
 4. Muhd Shahril Nizam Ismail, Abdul Naser Abdul Ghani, Zuhayr Md Ghazaly (2019). The Characteristics of Road Inundation During Flooding Events In Peninsular Malaysia. *International Journal of GEOMATE*, Feb., 2019 Vol.16, Issue54, pp.129 - 133. *Geotec., Const. Mat. & Env.*, DOI: <https://doi.org/10.21660/2019.54.4827> ISSN: 2186-2982 (Print), 2186-2990 (Online), Japan
 5. Nur Aqilah Ahmad Faisal, Abdul Naser Bin Abdul Ghani, Nuzaihan Aras Agus Salim, 2018, The Ability Of Wall Openings To Reduce Flood Induced Forces On Residential Building, *International Journal of GEOMATE*, 14 Issue 46:, 63-69
 6. Safawati Mohd Radzi, Abdul Naser Bin Abdul Ghani, Muhd Shahril Nizam Ismail, Ahmad Hilmy Bin Abdul Hamid, Khalid Bin Ahmad, 2017, A Study On The Use Of Polyurethane For Road Flood Damage Control, *International Journal of GEOMATE*,, 12:Issue 32, (Impact Factor : 0.24)
 7. Muhd Shahril Nizam Ismail, Abdul Naser Bin Abdul Ghani, 2017, An overview of road damages due to flooding: Case study in Kedah state, Malaysia, *AIP Conference Proceedings*, doi: 10.1063/1.5005787, 1892, 190001 (2017);,
 8. Liew Eu Hung, Abdul Naser Abdul Ghani, 2017, Experimental Validation On The Design Of Strain Gage Based Sensor For Soil Compaction, *Malaysian Construction Research Journal*, ,
 9. Siti Nursaadah Haron, Abdul Naser Abdul Ghani, Abdul Malek Abdul Rahman, 2016, Thermal Characteristics of Experimental Porous Pavers. (Indexed by SCOPUS), *Jurnal Teknologi*, 78: ,
 10. Devagaran Samugavelu, Abdul Naser Abdul Ghani, 2016, Civil Infrastructure and Building Design: The Development of GIS Database and Product as Design Aid.(Indexed by SCOPUS), *Jurnal Teknologi*, 78: ,
 11. Abdul Naser Abdul Ghani, Nur Izyan Roslan, Ahmad Hilmy Bin Abdul Hamid, 2016, Road Submergence During Flooding and Its Effect on Subgrade Strength.(Indexed by SCOPUS), *Int. J. of GEOMATE*, 10: ,
 12. N.S. Baharom, A.N.A. Ghani, 2015, Preliminary Study Of Soil-Cement Piling As A New Alternative In Levee And River Bank Strengthening.(Indexed by SCOPUS), *Jurnal Teknologi*, 75(5)., 75(5):1,
 13. N.I. Roslan, A. Naser Abdul Ghani, A.H. Abdul Hamid, 2015, Road Subgrade Strength Under Various Flooding Event.(Indexed by SCOPUS), *Jurnal Teknologi*, 75(5). ISSN 2180-372, 75(5):1,
 14. Abdul Naser Abdul Ghani, Ahmad Hilmy Abdul Hamid, Nursriafitah Kasnon, 2015, Study on the Use of Obstructing Objects to Diffuse Flood Water Velocity during Road Crossing.(Indexed by SCOPUS), *Int. J. of GEOMATE*, 8:No. 16, (Impact Factor :0.825)
 15. Ghani, A.N.A. (2005). *Civil Engineering Infrastructure and Land Development: Issues in the Technically Difficult Ground Condition in Malaysia*. In *Proceeding of International Conference on Construction and Real Estate Management: The Challenge for Innovation*. (Wang, et al. Eds). P.R. China: China Architecture & Building Press. P. 1199-1201. ISBN 7-112-07871-7. (Indexed in WOS)

Intellectual Property

a. Patent

- 1) PI 2016500007 – Sistem Penyingkiran Pasir (Sand Removal Systems)
- 2) PI 2016500036 – Penyedut Pasir Mudah Alih (Portable Sand Extractor)

Graduate Supervision and Teaching

Currently supervising 3 PhD and 2 Master's students. Graduated more than 30 postgraduate PhD and Master's students by thesis and dissertation. External and internal examiners of more than 20 PhD/MSc thesis. Teaching subject related to civil infrastructures for built environment.

Internal and External Examiner

15 PhD Thesis internal and external examiner

6 Masters (Research) Thesis internal and external examiner

Academic, Leadership and Professional Awards

1. Selection Prize, 6th JICA International Thesis Competition., JICA, JAPAN., Jepun , 2003 (International)
2. Malaysian Construction Industry Excellence Award - R&D of The Year Award 2004, CIDB Malaysia, Malaysia , 2004 (National)
3. Gold Medal, ITEX, MINDS, Kuala Lumpur, ITEX 2004, 2004 (National)
4. Excellent Service Award 2004, USM, USM, 2004 (University)
5. Gold Medal, GENEVA 33rd International Exhibition of Inventions, New Techniques and Products, GENEVA, 2005 (International)
6. Saintis Cemerlang (Excellent Scientist Award), 2005, National, MALAYSIA., Ministry of Higher Education., MOHE, 2005 (National)
7. Sanggar Sanjung 2005, USM, USM, 2005 (University)
8. Tokoh Maal Hijrah Peringkat Daerah Padang Terap, Kedah., Pejabat Agama Daerah Padang Terap Kedah, Pejabat Agama Daerah Padang Terap Kedah, 2011 (Community))
9. Anugerah Perkhidmatan Cemerlang, USM, Malaysia , 2013 (University)
10. Makmal Penyelidikan dan Inovasi Terbaik 2015, USM, Konvensyen Kualiti 2015, 2016 (University)
11. Anugerah Harta Intelek Negara 2017 (FINALIST), AHIN2017, Kuala Lumpur, 2017 (National)
12. Silver Award, Invention and Innovation Awards, Malaysia Technology Expo 2020 – Zero Energy Sediment Removal Systems from Dam.
13. International Award of Merit. The Malaysia Croatia Technology Exchange 2020.

Fellowship

1. Honorary Research Fellow, Center for Earthquake Engineering Research, University of Auckland, , 2015 (International)
2. Visiting Senior Fellow, Faculty of Engineering and Sustainable Development, Universite Des Mascareignes, Mauritius, 2020.

Editorial Board

1. Chief Editor, International Journal of Built Environment in the Tropics (ISSN: 2637-0514)
2. Editor, Journal of Construction in Developing Countries (Indexed by SCOPUS), 01/01/2012 - Present (International) A SCOPUS Indexed Journal.

Member in Professional/Academic Associations

1. Members , Association of Consulting Engineers Malaysia, 2011-Present (National)
2. Life Member , ASEAN Federation of Engineering Organisations, Since 2006 (International)
3. Life Member , The GEOMATE International Society, JAPAN, Since 2013(International)
4. Member, American Society of Civil Engineers, 1998-Present (International)
5. Member, Board of Engineers Malaysia, 1993-Present (National)
6. Member, The Institution of Engineers Malaysia (National)
7. Member, International Society of Soil Mechanics and Geotechnical Engineering, 2011-Present (International)
8. Executive Committee, Malaysian Association of Accredited Laboratories, 2017- 2018.

Keynote Speaker/Invited Speaker

9 keynote and invited speakers in the area of research methods, accredited lab and civil engineering infrastructures.

Consultancy

8 major consultancy with monetary income and 5 major consultancy without monetary reward

Service to University/Society

1. Dean, School of Housing Building and Planning, USM, 2019-Present
2. Head of Department, Building Engineering Technology, School of Housing Building and Planning, USM (1997-2000)
3. Manager, Income Generation, School of Housing Building and Planning, USM (2016-2018)
4. Member USM Transportation Task Force, 27/03/2014-31/12/2014
5. Chairman/Quality Manager (HBP Testing Unit) a SAMM and ISO17025 Accredited Lab, 01/12/2012-Present
6. Member, Executive Committee of Engineering and Technology Research Platform (2004-2005), 02/08/2004- 02/08/2004
7. Permanent Member, Malaysian National Accreditation Council (NAC), Department of Standard Malaysia. 2018-Present. (National)
8. Panel Assessor, Department of Standard Malaysia - Skim Akreditasi Makmal (SAMM), Industry, 17/05/2013- Present (National)
9. Malaysian Delegation Member, 20th Meeting of ASEAN Federation of Engineering Organisation, Industry, 02/09/2002-02/09/2002 (International).
10. KPT Newton-NERC Evaluation Panel. 2018-Present. (International)
11. KPT FRGS Evaluation Panel. 2016-Present (National)

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