



PERSONAL DETAILS

Name : Sitti Asmah binti Hassan
Department of Geotechnics & Transportation, School of Civil
Correspondent Address : Engineering, Faculty of Engineering, Universiti Teknologi Malaysia,
81310 Skudai, Johor.
E-mail : sasmah@utm.my
Website : <http://people.utm.my/sittiasmah>
Expertise : Transportation & Traffic Engineering
H-Index (WOS) : 3
H-Index (SCOPUS) : 6
H-Index (G. Scholar) : 9

ACADEMIC QUALIFICATIONS

1. PhD. (Transportation). University of Southampton, UK. 2013.
2. M.Eng (Civil – Transportation and Highway). Universiti Teknologi Malaysia. 2006.
3. B.Eng (Hons) (Civil – Construction Management). Universiti Teknologi Malaysia. 2002.

ADMINISTRATIVE EXPERIENCE

NO	POSITION	STARTING DATE	ENDING DATE	DEPARTMENT/ FACULTY/ DIVISION
1.	IT Manager	17.10.2018	31.01.2021	School of Civil Engineering, Faculty of Engineering, UTM
2.	Deputy Head of Pavement & Transportation Research Group (PTRG)	01.01.2020	31.12.2020	School of Civil Engineering, Faculty of Engineering, UTM
3.	Deputy Head of Pavement & Transportation Research Group (PTRG)	01.01.2019	31.12.2019	School of Civil Engineering, Faculty of Engineering, UTM
4.	Head of Transportation Laboratory	01.06.2016	30.09.2018	School of Civil Engineering, Faculty of Engineering, UTM
5.	Head of Transportation Laboratory	01.10.2014	30.09.2016	School of Civil Engineering, Faculty of Engineering, UTM

RESEARCH DIGITAL PROFILER

1. Scopus ID : 56355098100
2. ORCID ID : orcid.org/0000-0001-7196-3793

PROFESSIONAL MEMBERSHIP

1. Professional Engineer, Board of Engineers Malaysia (BEM) (P119609).
2. Chartered Member, The Chartered Institute of Logistics & Transport (CILT)
3. Professional Technologist, Malaysia Board of Technologist (MBOT) (PT20080324)
4. Corporate Member, The Institute of Engineers, Malaysia (IEM)
5. Member, Society of Engineering Education Malaysia (SEEM)
6. Member, Transport Science and Society of Malaysia (TSSM)
7. Graduate Member, Board of Engineer Malaysia (BEM)

TEACHING EXPERIENCES

Undergraduate Courses Taught

- | | | |
|----|--------------------|---|
| 1. | SAB/SKAA/SKAB 3842 | Traffic Engineering |
| 2. | SAB/SKAA 4022 | Research Methodology & Final Year Project |
| 3. | SKAA/SKAB 3012 | Civil Engineering Laboratory II |
| 4. | SKAA 2012 | Civil Engineering Laboratory I |
| 5. | SAB 4814 | Highway and Traffic Engineering |

Postgraduate Courses Taught

- | | | |
|----|-----------|---------------------------------|
| 1. | MKAQ 1013 | Highway & Infrastructure Design |
| 2. | MKAQ 1093 | Transport Safety |
| 3. | MKAQ 1083 | Traffic Management & Analysis |
| 4. | MKAQ 1063 | Public Transport |

PUBLICATIONS (selected publications)

ISI Article/Journal

1. **Hassan, S.A.**; Hamzani, I.N.S.; Sabli, A.R. & Sukor, N.S.A. (2021). Bus Rapid Transit System Introduction in Johor Bahru: A Simulation-Based Assessment. *Sustainability*. Vol. 13 (8): 4437, pg. 1-13, <https://doi.org/10.3390/su13084437>. ISSN 2071-1050. WOS-Q2. IF 2.592.
2. Sukor, N.S.A.; Airak, S. & **Hassan, S.A.** (2021). "More Than a Free Bus Ride"—Exploring Young Adults' Perceptions of Free Bus Services Using a Qualitative Approach: A Case Study of Penang, Malaysia. *Sustainability*. Vol. 13 (6): 3294, pg. 1-20, <https://doi.org/10.3390/su13063294>. ISSN 2071-1050. WOS-Q2. IF 2.592.
3. N.M. Azahar, N.A. Hassan, R.P. Jaya, M.R. Hainin, N.I.M. Yusoff, N.H.M. Kamaruddin, N.Z.M. Yunus, **S.A. Hassan** & H. Yaacob. (2021). Properties of cup lump rubber modified asphalt binder. *Road Materials and Pavement Design*, 22:6, 1329-1349. DOI: 10.1080/14680629.2019.1687007. eISSN: 2164-7402. WOS-Q1. IF 3.792.
4. Musa, M.F.; **Hassan, S.A.** & Mashros, N. (2020). The impact of roadway conditions towards accident severity on federal roads in Malaysia. *PLoS ONE*. Vol. 15 (7): e0235564. <https://doi.org/10.1371/journal.pone.0235564>. ISSN 1932-6203. WOS-Q2. IF 2.74.
5. **Hassan SA**, Hounsell NB & Shrestha BP. (2017). Investigating the Applicability of Upstream Detection Strategy at Pedestrian Signalised Crossings. *Promet-Traffic & Transportation*. Vol. 29 (5), pg. 503-510. ISSN 0353-5320, eISSN 1848-4069. WOS-Q4. IF 0.43.
6. Ishtiaque Ahmed, Suleiman Abdulrahman, Mohd Rosli Hainin & **Sitti Asmah Hassan**. (2014). "Trip Generations at "Polyclinic" Land Use Type in Johor Bahru, Malaysia". *Promet – Traffic & Transportation*. Vol. 26 (6). pp: 467-473. DOI: <http://dx.doi.org/10.7307/ptt.v26i6.1462>. ISSN 0353-5320, eISSN 1848-4069. WOS-Q4. IF: 0.292.

Scopus Article/Journal

1. Wan Nur Sakinah Mior Ahmad Termidi, Nordiana Mashros, **Sitti Asmah Hassan**, Rizwan Ullah Faiz, Azman Mohamaed & Raha Abd Rahman. (2021). Assessment of Young Drivers' Driving Behaviour and Driving Speed Along Horizontal and Vertical Alignments. *International Journal of Integrated Engineering*. Vol 13 (3), pp. 215-222. e-ISSN 2600-7916.
2. Zaid Hazim Al-Saffar, Haryati Yaacob, Mohd Khairul Idham Mohd Satar, Siti Nur Naqibah Kamarudin, Mohd Zul Hanif Mahmud, Che Ros Ismail, **Sitti Asmah Hassan** & Nordiana Mashros. (2021). A review on the usage of waste engine oil with aged asphalt as a rejuvenating agent. *Materials Today: Proceedings*. Vol. 42, pp. 2374-2380. ISSN 2214-7853.
3. Nordiana Mashros, Muhammad Faizudin Md Nor, Aztri Yuli Kurnia, & **Sitti Asmah Hassan**, Norhidayah Abdul Hassan and Nor Zurairahetty Mohd Yunus. (2020). Evaluating the Effectiveness of Road Humps in Reducing Vehicle Speed: Case Study of a University Campus. *International Journal on Advanced Science Engineering Information Technology*. Vol. 10 (2), pp. 814-820. DOI:10.18517/ijaseit.10.2.5836. ISSN 2088-5334.
4. Nur Sabahiah Abdul Sukor, Nurulain Mohamed Hatta & **Sitti Asmah Hassan**. (2017). Addressing the Pedestrian Issues in Malaysia: En Route Towards Walking Culture and Sustainable City. *Journal of Engineering and Applied Sciences*. Vol. 12 (7), pp. 1811-1818. ISSN 1811-1818.

5. N.M. Azahar, N.A. Hassan, R.P. Jaya, M.R. Hainin, N.I.M. Yusoff, N.H.M., Kamaruddin, N.Z.M. Yunus, **S.A. Hassan** & H. Yaacob. (2021). Properties of cup lump rubber modified asphalt binder, *Road Materials and Pavement Design*, 22:6, 1329-1349, DOI:10.1080/14680629.2019.1687007
6. **Sitti Asmah Hassan**, Lavine Wong, Nordiana Mashros, Hashim Mohammed Alhassan, Nur Sabahiah Abdul Sukor, Munzilah Rohani & Anil Minhans. (2016). Operating Speed of Vehicles During Rainfall at Night: Case Study in Pontian, Johor. *Jurnal Teknologi*. Vol. 78 (7-2), pp. 9-18. E-ISSN 2180-3722.
7. Nurul 'Azizah Mukhlas, Nordiana Mashros, Othman Che Puan, & **Sitti Asmah Hassan**, Norhidayah Abdul Hassan, Rini Asnida Abdullah & Raha Rahman. (2016). Effect of Rainfall on Traffic Flow Characteristics During Night Time. *Jurnal Teknologi*. Vol. 78 (7-2). pp. 1-7. E-ISSN 2180-3722.
8. Sudesh Nair Baskara, Haryati Yaacob, Mohd Rosli Hainin & **Sitti Asmah Hassan**. (2016). Accident Due to Pavement Condition – A Review. *Jurnal Teknologi*. Vol. 78 (7-2). pp: 75-82. E-ISSN 2180-3722.
9. Muhammad Syimir Abd Wahab, Izzul Ramli, **Sitti Asmah Hassan**, Mohd Rosli Hainin & Anil Minhans. (2015). Demand Analysis of Parking at Machap Northbound Rest and Service Area. *Jurnal Teknologi*. Vol 76 (14). pp: 9-21. E-ISSN 2180-3722.
10. Nur Sabahiah Abdul Sukor, Nur Khairiyah Basri & **Sitti Asmah Hassan**. (2015). Travel Behaviour Modification Technique – A Framework For Awareness On Carbon Footprint Towards Adolescents In Developing Country”. *Jurnal Teknologi*. Vol 76 (14). pp: 43-48. E-ISSN 2180-3722.
11. Shamsuddin Shahid, Anil Minhans, Othman Che Puan, **Sitti Asmah Hassan** & Tarmizi Ismail. (2015). “Spatial and Temporal Pattern of Road Accidents And Casualties In Peninsular Malaysia”. *Jurnal Teknologi*. Vol 76 (14). pp: 57-65. E-ISSN 2180-3722.
12. Anil Minhans, Shamsuddin Shahid & **Sitti Asmah Hassan**. (2015). “Assessment of Bus Service-Quality using Passengers’ Perceptions”. *Jurnal Teknologi*. Vol. 73 (4). pp: 61-67. E-ISSN 2180-3722. DOI: <http://dx.doi.org/10.11113/jt.v73.4290>
13. Nordiana Mashros, Johnie Ben-Edigbe, Hashim Mohammed Alhassan & **Sitti Asmah Hassan**. (2014). “Investigating the Impact of Rainfall on Travel Speed”. *Jurnal Teknologi*. Vol. 71 (3). pp: 33-38. E-ISSN 2180-3722.
14. Mohd Ezree Abdullah, Kemas Ahmad Zamhari, Rosnawati Buhari, Siti Khatijah Abu Bakar, Nurul Hidayah Mohd Kamaruddin, Nafarizal Nayan, Mohd Rosli Hainin, Norhidayah Abdul Hassan, **Sitti Asmah Hassan** & Nur Izzu Md. Yusoff. (2014). “Warm Mix Asphalt Technology: A Review”. *Jurnal Teknologi*. Vol. 71 (3). pp: 39-52. E-ISSN 2180-3722.
15. **Sitti Asmah Hassan**, Othman Che Puan, Nordiana Mashros & Nur Sabahiah Abdul Sukor. (2014). “Factors Affecting Overtaking Behaviour on Single Carriageway Road: Case Study at Jalan Kluang-Kulai”. *Jurnal Teknologi*. Vol. 71 (3). pp: 87-91. E-ISSN 2180-3722.
16. **Sitti Asmah Hassan**, Othman Che Puan, Nordiana Mashros & Nur Sabahiah Abdul Sukor. (2014). “A Review into Traffic Signal Improvement at Pedestrian Signalised Crossings”. *Jurnal Teknologi*. Vol 70 (4). pp 27-31. E-ISSN 2180-3722.
17. Nur Sabahiah Abdul Sukor & **Sitti Asmah Hassan**. (2014). “En Route to a Sustainable Campus – An Analysis of University Students’ Travel Patterns Via 7 day Travel Diary”. *Jurnal Teknologi*. Vol 70 (4). pp 9-16. E-ISSN 2180-3722.
18. Nordiana Mashros, Johnie Ben-Edigbe, **Sitti Asmah Hassan**, Norhidayah Abdul Hassan & Nor Zurairahetty Mohd Yunus. (2014). “Impact of Rainfall Condition on Traffic Flow and Speed: A Case Study in Johor and Terengganu”. *Jurnal*. Vol 70 (4). pp 65-69. E-ISSN 2180-3722.
19. **Hassan, S.A.**, Hounsel, N.B. & Shrestha, B.P. (2013). “Verification of Puffin Modelling using VISSIM”. *Jurnal Teknologi*. Vol 65 (3). pp 81-84. doi: 10.11113/jt.v65.2150. E-ISSN 2180-3722.

Non-indexed Article/Journal

1. **Sitti Asmah Hassan**, Teoh Hao Xuan & Nordiana Mashros. (2017). Characteristics of Vehicle Headway During Rainfall at Night in Pontian, Johor. *Malaysian Journal of Civil Engineering*. Vol. 29 (1), pp. 59-74. ISSN 1823-7843.
2. Izzul Ramli, **Sitti Asmah Hassan** & Mohd. Rosli Hainin. (2017). Parking Demand Analysis of Rest and Service Area Along Expressway in Southern Region, Johor Malaysia. *Malaysian Journal of Civil Engineering*. Vol. 29 (1), pp.118-128. ISSN 1823-7843.
3. N.Z. Mohd Yunus, N.T. Wei, Y.C. Yung, A. Marto, F. Pakir, M.A. Hezmi, N. Abdullah, R.A. Abdullah, **S.A. Hassan** and R. Saari. (2015). Effectiveness of Canlite and Probase Stabilized Laterite Soil. *Journal of Advanced Research Design*. Vol 5 (1), pp. 17-30. ISSN 2289-7984.
4. R.A. Abdullah, H. Ahmad, M.F.M. Amin, N.M. Yunus, N. Mashros, **S.A. Hassan** and N. Ali. (2015). Efficiency of Slope Remedial Work at Bukit Nanas, Malaysia”. *Journal of Advanced Research in Applied Mechanics*, Vol 7 (1), pp. 1-11. ISSM 2289-7895.

Indexed Proceedings/Conference

1. Abdul Razak Ali & **Sitti Asmah Hassan**. (2020). Parking Characteristics in Malaysia Public Hospitals. SIE 2019 IOP Conference Series: Materials Science And Engineering. Vol 884, 012047. ISSN 1757 8981.
2. S.F. Azhari, **S.A. Hassan** & O.C. Puan. (2020). Relationship Between Delay, Accepted Gap and Circulating Flow at Roundabout. SIE 2019 IOP Conference Series: Materials Science And Engineering. Vol. 884, 012037. ISSN 1757 8981.
3. M. Azam, O.C. Puan, **S.A. Hassan** & N. Mashros. (2019). Calibration of microsimulation model for tight urban diamond interchange under heterogeneous traffic. GEOTROPIKA 2019 IOP Conf. Series: Materials Science and Engineering. Vol. 527, 012077. DOI: 10.1088/1757-899X/527/1/012077. ISSN 1757 8981.
4. E. Alenzi, O.C. Puan and **S.A. Hassan**. (2019). "Car following behaviours on multilane highways in Kuwait: as case study on 6th ring road". GEOTROPIKA 2019 IOP Conf. Series: Materials Science and Engineering, Vol. 527, 012075. DOI: 10.1088/1757-899X/527/1/012075. ISSN 1757 8981.
5. S.F. Azhari, O.C. Puan, **S.A. Hassan**, N. Mashros, M.N. Warid and R.S. Lopa. (2019). "Estimation of critical gap at small roundabout". GEOTROPIKA 2019 IOP Conf. Series: Materials Science and Engineering, Vol. 527, 012072. DOI: 10.1088/1757-899X/527/1/012072. ISSN 1757 8981.
6. T.M. Al-Bahr, O.C. Puan, **S.A. Hassan**, M.K. Idham and C.R. Ismail. (2019). "Parameters affecting fluctuation in traffic stream on urban roads". GEOTROPIKA 2019 IOP Conf. Series: Materials Science and Engineering, Vol. 527, 012067. DOI: 10.1088/1757-899X/527/1/012067. ISSN 1757 8981.
7. R.U. Faiz, N. Mashros, H.Z.U. Abbas and **S.A. Hassan**. (2019). "Aberrant behaviour plausibility in road traffic violations, errors and lapses". GEOTROPIKA 2019 IOP Conf. Series: Materials Science and Engineering, Vol. 527, 012074. DOI: 10.1088/1757-899X/527/1/012074. ISSN 1757 8981.
8. I. Ramli, M.R. Hainin, **S.A. Hassan** and S.N. Naqibah. (2019). "Development of parking estimation on rest service area in Malaysia". GEOTROPIKA 2019 IOP Conf. Series: Materials Science and Engineering, Vol. 527, 012079. DOI: 10.1088/1757-899X/527/1/012079. ISSN 1757 8981.
9. S N Baskara, H Yaacob, M R Hainin, **S A Hassan**, N Mashros, N Z M Yunus, N A Hassan, M N M Warid, M K Idham, C R Ismail, H M Nor, A Mohamad, M M A Aziz, R N Afiqah, M S A Ahmad and R P Jaya. (2019). "Influence of pavement condition towards accident number on Malaysian highway". SEPKA-ISEED IOP Conf. Series: Earth and Environmental Science, Vol. 220, 012008. DOI: 10.1088/1755-1315/220/1/012008. ISSN 1755 1315.
10. Abdul Razak Ali & **Sitti Asmah Hassan**. (2019). "Review of Malaysian Current Practice in Supply/Demand of Parking in the Hospital". IOP Conf. Series: Materials Science and Engineering. Vol. 512, 012057. ISSN 1757 8981.
11. Nordiana Mashros, **Sitti Asmah Hassan**, Haryati Yaacob, Mohd Shahrir Amin Ahmad, Ismail Samat, Othman Che Puan, Norhidayah Abdul Hassan, Nor Zurairahetty Mohd Yunus and Zaiton Haron. (2018). "Road Traffic Accidents on Senai-Desaru Expressway". SEPKA-ISEED 2018. MATEC Web of Conferences 250, 02002. DOI: <https://doi.org/10.1051/mateccconf/201825002002>.

Non-indexed Proceedings/Conference

1. Hamizah Amalina Amlan, **Sitti Asmah Hassan** & Nor Eliza Alias. (2021). Flooding Impacts on The Transportation System in Malaysia. Regional Conference in Civil Engineering And Sustainable Development Goals In Higher Education Institutions 2020. 23-25 January 2021, Virtual Conference.
2. Haydar Ali Mohamed, Othman Che Puan & **Sitti Asmah Hassan**. (2021). Calibration and Validation of Lane Changing Following Gap Distance Using VISSIM. RCEE SDG 2020 IOP Conf. Series: Materials Science and Engineering. Vol. 1153, 012016. doi:10.1088/1757-899X/1153/1/012016
3. U Jamaris, N A Hassan, M Z H Mahmud, C R Ismail, H Yaacob, S A Hassan. (2021). Properties Of Bitumen Modified With Latex Under Short-Term Ageing. ISCEE2020 IOP Conf. Series: Materials Science and Engineering. Vol. 1144, 012084. doi: <https://doi.org/10.1088/1757-899X/1144/1/012084>
4. Haydar Ali Mohamed, Othman Che Puan & **Sitti Asmah Hassan**. (2021). Empirical Evaluation of Lane Changing Following Gap Distance on Expressway. ISCEE2020 IOP Conf. Series: Materials Science and Engineering. Vol. 1144, 012077. doi:10.1088/1757-899X/1144/1/012077
5. Haydar Ali Mohamed, Othman Che Puan & **Sitti Asmah Hassan**. (2021). Examination of Lane Changing Duration Time on Expressway. ISCEE2020 IOP Conf. Series: Materials Science and Engineering. Vol. 1144, 012078. doi:10.1088/1757-899X/1144/1/012078.
6. Ahmad Najamuddin Othman, **Sitti Asmah Hassan** & Nordiana Mashros. (2020). Assessment of Parking Facilities in School of Civil Engineering. 5th Proceeding of Civil Engineering. School of Civil Engineering. ISSN 2756-8970.

7. Raja Nurulhaiza Raja Nhari & **Sitti Asmah Hassan**. (2020). Road Safety Assessment Tool (RSAT) for Road Design. Virtual Go-Green 2020. UiTM Perak, 29-30 September 2020.
8. **Sitti Asmah Hassan**, Nordiana Mashros, Norhidayah Abdul Hassan, Haryati Yaacob & Nur Sabahiah Abdul Sukor. (2019). Impact of Heavy Rainfall on Traffic Operation. *4th Global Summit of Research Institutes for Disaster Risk Reduction*. Kyoto University, Japan, 13-15 March 2019.
9. Mohamad Arif Mohamad Aminuddin, **Sitti Asmah Hassan**, Nordiana Mashros, Nor Zurairahetty Mohd Yunus & Rini Asnida Abdullah. (2018). Traffic Noise Level at Jalan Skudai-Gelang Patah, Mutiara Rini, Johor. 3rd Proceeding of Civil Engineering-Construction Management, Geotechnics & Transportation. Volume 2. School of Civil Engineering. ISBN 978-967-2171-62-1.
10. Roslida bt Abd Samat, Mohd Rosli bin Hainin, **Sitti Asmah Hassan**, Muhammad Azril bin Hezmi & Noraliani binti Alias. (2015). Tools to Select Supervisor for Final Year Project. Innovative Practices in Higher Education Expo 2015 (I-PHEX 2015), 06 August 2015, Universiti Teknologi Malaysia, Kuala Lumpur.
11. Nur Sabahiah Bt Abdul Sukor, **Sitti Asmah Bt Hassan** & Munzilah bt Md. Rohani. (2014). Mobility of the elderly at rural area Factors affecting the activity trips and mode choice. Conference for Civil Engineering Research Networks 2014 and 7th ASEAN Civil Engineering Conference (ACEC) Under AUN/SSED-Net, 4-5 November 2014, Campus ITB- Bandung.
12. **Hassan, S.A.** & Puan, O.C. (2013). Factors Affecting Overtaking Behaviour on Single Carriageway Road. The 9th International Conference of Geotechnical and Transportation Engineering (Geotropika) and the 1st International Conference on Construction and Building Engineering (Iconbuild), 29-30 October 2013. Persada Johor International Convention Centre, Johor, Malaysia. ISBN number: 978-967-6194-36-3.

Seminars/Workshops

1. **Sitti Asmah Hassan**, Azmahani Abdul Aziz, Siti Norafida Jusoh, Norelyza Hussein, Nordiana Mashros & Che Ros Ismail. (2019). Students' Reflective Journal as a Tool for Teaching Plan. *New Academia Learning Innovation 2019 (NALI2019): Innovation in Humanising Education*. Universiti Teknologi Malaysia, 18 September 2019.
2. Norelyza Hussien, Azmahani Abdul Aziz, **Sitti Asmah Hassan**, Siti Norafidah Jusoh, Nur Syamimi Zaidi, Khalida Muda, Mohd Badruddin Mohd Yusof & Shazwin Mat Taib. (2019). Implementation of Active Learning Approach in Teaching Environmental Management Course. *New Academia Learning Innovation 2019 (NALI2019): Innovation in Humanising Education*. Universiti Teknologi Malaysia, 18 September 2019.
3. Siti Norafida binti Jusoh, Azmahani Abdul Aziz, **Sitti Asmah Hassan**, Norelyza Hussien, Norzurairahetty Mohd. Yunus, Muhammad Azril bin Hezmi & Dayang Zulaikha Abang Hasbollah. (2019). Non-Conventional L&T Strategies in Soil Mechanics Course: Students Perception towards Knowledge, Motivation and Skills Development. *New Academia Learning Innovation 2019 (NALI2019): Innovation in Humanising Education*. Universiti Teknologi Malaysia, 18 September 2019.
4. **Sitti Asmah Hassan**. (2019). Impact of Rainfall on Traffic Operation. JASTIP-WP4 Seminar on Hydrometeorological Disasters in Humid Tropics. Kyoto, Japan, 11 March 2019.
5. Abdul Razak Ali, Sitti Asmah Hassan & Anil Minhans. (2016). Parking Demand Issues in Public Hospitals in Malaysia. International Sustainable Urban Infrastructure Seminar, 25 February 2016, Convention Hall, Faculty of Built Environment, UTM.
6. Hassan, S.A., Hounsell, N.B. & Birendra, S. (2010). Improving Pedestrian Facilities at Signalised Crossings. *Postgraduate Seminar 2010*. University of Southampton, UK. Poster Presentation.
7. Mohd Rosli Hainin, Shahreena Melati Rhasbudin Shah & Sitti Asmah Hassan. (2006). Evaluation on Aggregate Effective Specific Gravity as Related to Marshall Volumetric Properties. Seminar Kebangsaan Penyelidikan Kejuruteraan Awam, SEPKA, UTM, 19-20 December 2006.
8. Sitti Asmah Hassan, Othman Che Puan & Mohd Rosli Hainin. (2006). Driver's overtaking behaviour on Single Carriageway Roads. Seminar Kebangsaan Penyelidikan Kejuruteraan Awam, SEPKA, UTM, 19-20 December 2006.

Original Book

1. Sobri Harun, Ahmad Safuan A. Rashid, Nur Syamimi Zaidi, Libriati Zardasti, Ain Naadia Mazlan, Sitti Asmah Hassan, Nor Hasanah Abdul Shukor Lim, Ilya Khairanis Othman, Azman Mohamed, Ahmad Razin Zainal Abidin@Md. Taib & Eeydzah Aminuddin. (2020). Teaching Module for Civil Engineering Research Students. Publisher: UTM. ISBN 978-967-2401-30-8.

Edited Book

1. Sitti Asmah Hassan & Nordiana Mashros. (2017). Traffic Engineering and Safety: Case Study. Publisher: UTM.

Book Chapter

1. Fisal, S.F.M, Sukor, N.S.A, Halim, H., Md Rohani, M & **Hassan, S.A.** (2019). Distribution of bus stops at train stations: A comparison between Kyoto subway line and Kelana Jaya Line. In Sustainable Transportation Infrastructures: Series 2, Penerbit UTHM.
2. Lei, T.X, Sukor, N.S.A, Rahman, N.A, Md Rohani, M & **Hassan, S.A.** (2019). Pedestrian route choice of vertical facilities at KLCC underground train station. In Sustainable Transportation Infrastructures: Series 2, Penerbit UTHM.
3. Ariff Mohd Arshad, **Sitti Asmah Hassan**, Nur Sabahiah Abdul Sukor & Rini Asnida Abdullah. (2017). The use of Automatic Traffic Counter in Traffic Data Collection. In Sitti Asmah Hassan and Nordiana Mashros (Ed.). Traffic Engineering and Safety: Case Study. pp:1-15. Malaysia: Penerbit UTM Press, Johor. ISBN: 978-983-52-1417-2.
4. Nur Sabahiah Abdul Sukor, **Sitti Asmah Hassan**, Munzilah Md Rohani & Noor Aqilah Ahmad Tajedi. (2017). In Sitti Asmah Hassan and Nordiana Mashros (Ed.). Traffic Engineering and Safety: Case Study. pp:71-83. Malaysia: Penerbit UTM Press, Johor. ISBN: 978-983-52-1417-2.
5. **Sitti Asmah Hassan**, Othman Che Puan & Nordiana Mashros. (2014). Driver's Overtaking Behaviour in Single Carriageway Roads: A Case Study of Jalan Kluang-Kulai. In Othman Che Puan (Ed.). Road Transport Users' Behaviour and Their Interactions. pp: 63-78. Malaysia: Penerbit Press UTM, Johor. ISBN: 978-983-52-0977-2.
6. Nordiana Mashros, Johnie Ben-Edigbe, **Sitti Asmah Hassan** & Norhidayah Abdul Hassan. (2014). Variable Travel Speed under Rainfall Condition. In Othman Che Puan (Ed.). Road Transport Users' Behaviour and Their Interactions. Pp: 47-62. Malaysia: Penerbit Press UTM, Johor. ISBN: 978-983-52-0977-2.

RESEARCH GRANTS (selected activities)

BIL	NAME OF GRANT	ROLE	CATEGORY OF GRANT (UTM/ OTHERS)	TYPE OF GRANT	AMOUNT (RM)	STARTING DATE	ENDING DATE	VOTE NO
1.	Modelling Traffic Enforcement Using Intelligent Transport System In Nigeria	Principal Investigator	External Grants	OTHERS (Nigerian Institute of Transport Technology, Nigeria)	RM60,000	11.03.2021	10.03.2024	R.J130000.7 351.4B697
2.	The Impact Of Road Geometrical Parameters on Travel Speed In Urban Area	Principal Investigator	UTM	Industry-International Incentive Grant	RM20,000	01.06.2021	31.05.2022	Q.J130000.3 651.03M34
3.	Effects of Road Traffic on People's Health, Safety and Environment Along Abuja-Kano Highway, Nigeria	Principal Investigator	External Grants	OTHERS (Nigerian Institute of Transport Technology, Nigeria)	RM60,000	14.03.2021	13.03.2024	R.J130000.7 351.4B662
4.	Geometric Design Consistency Model Of Horizontal Curve On Two-Lane	Project Member	External Grants	FRGS	RM54,700	01.11.2020	31.10.2022	R.J130000.7 851.5F362

	Rural Road Using Operating Speed							
5.	Vulnerability and Risk Assessment for Transport Infrastructure.	Principal Investigator	UTM	UTM Fundamental Research	RM72,000	01.01.2020	31.12.2022	Q.J130000.2 551.21H41
6.	Impact of Aggressive Behaviour on Speed Selection By Young And Middle-Aged Drivers	Project Member	UTM	Tier 2 RUG	RM30,000	01.11.2019	31.10.2021	R.J130000.2 651.17J34
7.	A Model of Parking Demand Forecast for the Malaysia Public Hospitals	Principal Investigator	External Grants	FRGS	RM61,400	01.01.2019	31.09.2021	R.J130000.7 851.5F024
8.	Projek Penilaian Forensik Jalan Bersama Industri	Project Member	External Grants	Centre for Community and Industry Network (CCIN): Business Entity Grant	RM1,561	01.03.2019	31.08.2020	S.J130000.0 851.4Y212
9.	Analysis of Newly Designed Road Barrier for Use on Malaysia Road. (Collaboration between Pesako Technology Sdn. Bhd. and Faculty of Engineering, UTM)	Project Member	External Grants	Contract Research DTD	RM70,000	01.06.2020	30.06.2020	R.J130000.7 651.4C445
10.	Accident Predictive Model for Malaysia Rural Road	Principal Investigator	UTM	Tier 1 RUG	RM40,000	01.07.2017	30.06.2019	Q.J130000.2 522.17H71
11.	Transportation and Traffic Management Studies for Johor Bahru City Centre, Batu Pahat, Muar, Kulai dan Pasir Gudang. (Collaboration between Perbadanan Pengangkutan Awam Johor (PAJ) and Pavement & Transportation Research Group, UTM)	Project Member	External Grants	Contract Research DTD	RM460,000	01.01.2017	31.05.2018	R.J130000.7 622.4C127
12.	Parking Generation on Government Hospitals	Principal Investigator	UTM	Tier 1 RUG	RM38,000	15.11.2015	14.11.2017	Q.J130000.2 522.11H37

	in Malaysia							
13.	Fundamental Studies on Parking Generation At Expressway Rest Areas in Southern Peninsular Malaysia	Principal Investigator	UTM	Tier 1 RUG	RM20,000	01.07.2014	30.06.2015	Q.J130000.2522.08H44
14.	Economic Evaluation of Upstream Detection Strategy	Principal Investigator	UTM	PAS RUG	RM20,000	01.11.2013	31.10.2014	Q.J130000.2722.00K69

CONSULTATION WORKS

No.	Year	Title	Value	Vot
1.	2020	Traffic Study for Pengerang Integrated Complex (PIC) During Operation Stage for Petronas Refinery and Petrochemical Corporation Sdn. Bhd. (PRPC). Client: Petronas Refinery and Petrochemical Corporation Sdn. Bhd. 09.12.2019 - 30.06.2020	RM 384,000.00	1624 UTSB
2.	2019	Potential Use of Quarry Waste for Road Shoulder. Client: Infra Desa (Johor) Sdn. Bhd. 26.03.2018 – 31.12.2019	RM8,680.00	1313 UTSB
3.	2019	Geotropika- Ichitra 2019. 01.01.2019 – 31.12.2019	RM146,261.00	A.J510200.6600.06111 UTSB
4.	2018	Perkhidmatan Perundingan - Ujian-ujian Bahan Pembinaan, Laporan Teknikal dan Kursus Teknikal.	RM 2,500.00	1313 UTSB
5.	2018	General Services (Minor Works) for Refinery and Petrochemicals Integrated Development (RAPID) Project – Update Traffic Management Plan (Phase 1): Extension of Work. 01.05.2018 - 30.06.2018	RM 32,966.00	1303 UTSB
6.	2018	General Services (Minor Works) for Refinery and Petrochemicals Integrated Development (RAPID) Project – Update Traffic Management Plan (Phase 1). 01.02.2018 – 30.04.2018	RM 224,529.02	1303 UTSB

SUPERVISION

PhD Student

No.	Name	No. Matric	Status (Graduated/ On-Going)	Title	Roles of Supervision
1.	Usman Shehu Rabi	PKA203031	On-going	Road Traffic Congestion Classification	Main supervisor
2.	Tijjani Abdulganiyu Olukayode	PKA203033	On-going	Effects of Road Traffic on People's Health, Safety and Environment Along Abuja-Kano Highway, Nigeria	Main supervisor

3.	Garba Muhammad Sani	PKA203034	On-going	Optimizing MPPT using Artificial Neural Network for PV Hybrid Electric Vehicles	Main supervisor
4.	Aliyu Abubakar Burga	PKA203037	On-going	Impact Of Advanced Driver Assistance System In Developing Nation	Co-supervisor
5.	Muhammad Azam Zahour	PKA193027	On-going	Impact of Autonomous Vehicles on Traffic Operations Under Heterogeneous Traffic Conditions	Main supervisor
6.	Hamizah Amalina binti Amlan	PKA193022	On-going	Vulnerability Assessment of Urban Road Network in Cases of Natural Disaster	Main supervisor
7.	Rizwanullah Faiz	PKA183034	On-going	Behavioral Analysis of Older Age Driver And Road Safety	Co-supervisor
8.	Haydar Ataelmanan Ali Mohamed	PKA173075	On-going	Lane Changing Behaviour Modeling on Motorway	Main supervisor
9.	Shaza Farouq Azhari Hassan	PKA173026	Submitted for viva	Modeling Roundabout Capacity And Delay Using Adaptive Neuro Fuzzy Inference System	Main supervisor
10.	Eisa Alenzi	PKA163048	On-going	Effects of Climates on Driver's Car Following Behavior and Speed Flow Relationships for Highways in Kuwait	Main supervisor
11.	Abdul Razak bin Ali	PKA153010	Graduated	Parking Generation at Government Hospitals in Peninsular Malaysia	Main supervisor
12.	Sudesh Nair a/ Baskara	PA133056	On-going	Investigations on pavement properties related to Malaysian weather condition and road accidents	Co-supervisor
13.	Tareq Mohammed Ali Al-Bahr	PA123090	Graduated	Assessment of Effect of Geometric and Traffic Parameters on Speed Flow Relationship in Urban Roads	Co-supervisor
14.	Izzul bin Ramli	PA123081	Graduated	Studies on Parking Generation at Expressway Rest Areas in Southern Peninsular Malaysia	Main supervisor
15.	Amir Hossein Pakshir	PA103155	Graduated	Influence of Rainfall on Roundabout Capacity and Their Implication for gap Acceptance	Co-supervisor

MSc. Student

No.	Name	No. Matric	Status (Graduated/ On-Going)	Title	Mode (Research / Taught-course/ Mixed Mode)	Roles of Supervision
1.	Razeeatul Maisara Binti Abdul Majeed	MSC202007	On-going	Modelling of Vehicle Delay for Bus Rapid Transit in Isolated Vehicle Actuated Junction	Taught-course	Co-supervisor

2.	Muhammad Ridhwan Bin Noridan	MKA203017	On-going	Modelling Of Operating Speed At Horizontal Curve Based On Driving Style Using Vissim Microsimulation Model	Research	Co-supervisor
3.	Li Siyuan	MKA191131	On-going	Evaluation of Risky Driving Behaviour in Malaysia	Taught-course	Main supervisor
4.	Ibrahim Osama Ibrahim Tamam	MKA191006	Graduated	Assessment of Unsignalized Intersection Operational Performance: A Case Study at Jalan Universiti, Johor, Malaysia	Taught-course	Main supervisor
5.	Abd Ramzi bin Sabli	MKA171012	Graduated	Bus Rapid Transit Using Compensation Method As Bus Priority System At Isolated Three-Arm Junction	Taught-course	Main supervisor
6.	Intan Nurfauzirah Shafiqah binti Hamzani	MKA171010	Graduated	Bus Rapid Transit at Isolated Vehicle Actuated Junction Using Recall and Green Extension Bus Priority Strategy	Taught-course	Main supervisor
7.	Raja Nurulhaiza binti Raja Nhari	MKA151099	Graduated	Road Safety Assessment Tool (RSAT) in Determining Level of Safety for Road Design	Taught-course	Main supervisor
8.	Jalaludin bin Abas	MKA151085	Graduated	Road Safety Audit at Expressway Upgrading Pasir Gudang Expressway (F17) Johor Bahru	Taught-course	Main supervisor
9.	Mohad 'Fedder bin Musa	MKA151084	Graduated	Accident Predictive Model based on Environmental Factors at Federal Route, Malaysia	Taught-course	Main supervisor
10.	Rosli bin Hashim	MKA151081	Graduated	Analysis on Junction Performance From 5 Developments at Jalan Ipoh Lumut (FT100), Manjung, Perak	Taught-course	Main supervisor
11.	Muhammad Raihan Hj. Samuri	MKA141129	Graduated	Flow-Speed-Density Relationships for Pedestrians at Midblock Crossings	Taught-course	Main supervisor
12.	Khalida Adibah binti Mohamad Yazit	MKA141086	Graduated	Pedestrian Flow Characteristics At Pelican Crossings For Central Business	Taught-course	Main supervisor

				District Areas In Johor Bahru		
13.	Faiznur Syahidah Binti Sulaiman	MKA151027	Graduated	Assessment of Traffic Noise at Residential Areas: A Case Study in Skudai, Johor.	Taught- course	Co-supervisor
14.	Muhammad Syimir Abd Wahab	MA131016	Graduated	Trend of Parking Demand at Machap Northbound Rest Area	Taught- course	Main supervisor
15.	Abdul Razak bin Ali	MA131070	Graduated	Parking Generation at Government Offices in Perak	Taught- course	Main supervisor

Undergraduate Final Year Project Student = 37

CHAIRPERSON/ INVITED GUEST SPEAKER (selected activities)

NO	ROLE	TITLE OF PROGRAMME	DATE	LOCATION
1.	Invited Guest Speaker	Online course on Pavement Quality Control.	03.03.2021	UTM
2.	Invited Guest Speaker	SKASHINE 5/2020: To Dare it To Do!	09.08.2020	UTM
3.	Invited Guest Speaker	Sharing Session: Course Assessment during Pandemic Covid19	28.04.2020	UTM
4.	Invited Guest Speaker	Sharing Session on Online Teaching Tools: Hands On Online Teaching Tools (Powerpoint Video Presentation, Screencast-O-Matic, Big Blue Button)	12.03.2020	UTM
5.	Invited Guest Speaker	Seminar in Transportation Studies: Sustainable Transport System in Malaysia: Issues and Challenges	15.08.2019	USM
7.	Invited Guest Speaker	JASTIP-WP4 Seminar on Hydrometeorological Disasters in Humid Tropics: Impact of Rainfall on Traffic Operation	11.03.2019	Kyoto, Japan
8.	Invited Speaker	Inbound Mobility Program, UNISULLA-SKA, UTM	12.02.2019 – 05.03.2019	UTM
9.	Expert Advisor	VISSIM microsimulation modelling	15.10.2018	Sena Traffic Systems Sdn. Bhd.
10.	Invited Guest Speaker	Expert Talk: Microsimulation Model: Know What & How	19.09.2018	UTHM
11.	Invited Guest Speaker	MRSC 1063 Sustainable Transport: Sustainable Transportation	07.04.2018	UTM KL
12.	Session Chairperson	The 11th International Conference on Geotechnical Engineering in Tropical Regions (11th GEOTROPIKA) and The 1st International Conference on	28.02.2018	

		Highway and Transportation Engineering (1st ICHITRA)		
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AWARD AND HONORS RECEIVED (selected awards)

NO	AWARD	LEVEL (FACULTY /UTM /NATIONAL /INTERNATIONAL)	YEAR
1.	Excellence Service Award 2019. Citra Karisma. Universiti Teknologi Malaysia.	UTM	2020
2.	Anugerah berkaitan Pengajaran dan Pembelajaran. Active Blended Learning Course SKAB 3842-01. Semester 2 2019 2020.	UTM	2020
3.	Anugerah berkaitan Pengajaran dan Pembelajaran. Active Blended Learning Course MKAQ 1093-01. Semester 2 2019 2020.	UTM	2020
4.	Silver Award in New Academia Learning Innovation 2020 (NALI2020). "A Comparative Study between Face-to-Face and Online Learning in Traffic Engineering Course". Universiti Teknologi Malaysia. 07-10 December 2020.	NATIONAL	2020
5.	Silver Award in New Academia Learning Innovation 2020 (NALI2020). "Project-based Blended Learning Using Padlet". Universiti Teknologi Malaysia. 07-10 December 2020.	NATIONAL	2020
6.	Bronze Award in Innatex 2019. "Maltenator". Innovate Johor, UTM. 30 September 2019 – 3 October 2019.	NATIONAL	2019
7.	Silver Award in New Academia Learning Innovation 2019 (NALI2019). "Student's Reflective Journal as a Tool for Teaching Plan". Universiti Teknologi Malaysia. 18 September 2019.	NATIONAL	2019
8.	Silver Award in New Academia Learning Innovation 2019 (NALI2019). "Implementation of Active Learning Approach in Teaching Environmental Management Course". Universiti Teknologi Malaysia. 18 September 2019.	NATIONAL	2019
9.	Bronze Award in New Academia Learning Innovation 2019 (NALI2019). "Non-Conventional Teaching & Learning Strategies in Soil Mechanics Course: Students Perception Towards Knowledge, Motivation and Skills Development". Universiti Teknologi Malaysia. 18 September 2019.	NATIONAL	2019
10.	The Best Ideas Award for project "SEER-GreenCon". Competition "beyond bauhaus-prototyping the future" Aufbau Haus, Berlin. 16 August 2019	INTERNATIONAL	2019