

Ts. Dr. Nur Kamaliah Mustaffa

Professional Technologist (PT21040163)
MyCREST Facilitator (MyQP-00435)
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Ts. Dr. Nur Kamaliah Mustaffa is a Senior Lecturer at the Faculty of Civil Engineering, Universiti Teknologi MARA, Malaysia. She holds a PhD Degree in Civil and Environmental Engineering (Sustainability in Construction) from the University of New South Wales, Sydney, Australia. She has been appointed as a Coordinator of Research for College of Engineering, Universiti Teknologi MARA. She is also a former of Co-Chairman of UiTM Sustainability Committee, Greenation@UiTM a taskforce unit under UiTM Vice Chancellor project to lead the university effort towards achieving world class sustainable best practices organization. In addition, she also has been appointed as a Coordinator of Malaysian Academy of SME & Entrepreneurship Development (MASMED).

She is currently leading a collaboration project with Ipoh Local City Council in assisting the city council to develop the strategies, action plans and blueprints to transform the city into smart and low carbon. She is also leading a project on carbon reduction strategies in construction funded by Ministry of Education, Malaysia and has been involved in several project collaborations with public and private organisations (World Bank, Bank Pembangunan, CIDB and etc) mainly focuses on low carbon and sustainable development initiatives. She is registered as certified Malaysian Carbon Reduction and Environmental Sustainability Tool (MyCREST) Qualified Professional (QP) and Qualified Assessor (QA)

ACADEMIC QUALIFICATION

1. The University of New South Wales, Sydney, Australia
Ph.D in Civil and Environmental Engineering (Sustainability in Construction)
2014 – 2018
2. Universiti Teknologi MARA (UiTM), Malaysia
MSc in Civil Engineering (Construction Engineering)
2006-2008
3. Universiti Teknologi MARA (UiTM), Malaysia
BSc in Civil Engineering (Hons.)
2004- 2006

EMPLOYMENT

1. **Research Internship**
Korea Advanced Institute of Technology (KAIST), South Korea
Dec 2007- July 2008
2. **Lecturer**
Faculty of Civil Engineering, Universiti Teknologi MARA, Malaysia
July 2008 – Jan 2014

3. **Senior Lecturer**

Faculty of Civil Engineering, Universiti Teknologi MARA, Malaysia
Jan 2014- Present

PROFESSIONAL QUALIFICATION

1. Graduate Civil Engineer registered with the Board of Engineers Malaysia (BEM)
2. Graduate Technologist registered with Malaysian Board of Technologist (MBOT)
3. Malaysian Carbon Reduction and Environmental Sustainability Tool (MyCREST) Qualified Professional (MyQP-00435)
4. Malaysian Carbon Reduction and Environmental Sustainability Tool (MyCREST) Qualified Assessor (MyA-00131)
5. Professional Technologist registered with Malaysian Board of Technologist (MBOT) (PT21040163)

RECENT INDICATORS OF PROFESSIONAL ESTEEM

1. **2021 - Coordinator of Research:** College of Engineering, Universiti Teknologi MARA, Malaysia
2. **2019-2021 - Co-Chairman:** Sustainability Committee UiTM, Universiti Teknologi MARA, Malaysia
3. **2019-2021 - Coordinator of Entrepreneurship:** Malaysian Academy of SME & Entrepreneurship Development (MASMED)
4. **2020-2021 - Project Director:** Ipoh City Council -UiTM collaboration on Ipoh towards Low Carbon City Project
5. **2018- 2019 - Risk Manager:** Faculty of Civil Engineering, Universiti Teknologi MARA, Malaysia
6. **2018- Liaison Officer:** Engineering Accreditation Council for UiTM (Civil)
7. **2018-2019 - Auditor:** Internal and External Auditor, Diploma and Bachelor's degree for Civil Engineering Programme, Universiti Teknologi MARA
8. **2018-Present - Faculty Committee:** Outcome Based Education, Engineering Accreditation Council, Internal and External Audit, Innovation and Invention, Business Intelligence Unit, Operational Excellence
9. **2009-Present - Teaching experience:** Risk Management, Construction Project Management, Construction Technology, Sustainability and Environmental Engineering, Entrepreneurship Technology

EXPERT PANEL&APPOINTMENT COMMITTEE

1. **2019-2022 - External Examiner** for Diploma Technology Engineering Construction (Green Building), Kolej Kemahiran Tinggi MARA Sri Gading
2. **2021 - External Interviewer Panel, Federal Training Prize Scholarship** (*Biasiswa Hadiah Latihan Persekutuan*), Malaysia Public Service Department
3. **2020 - External Interviewer Panel, Malaysia Royal Highness Scholarship** (*Biasiswa Yang Dipertuan Agong*), Malaysia Public Service Department
4. **2020 - External Interviewer Panel, Federal Training Prize Scholarship** (*Biasiswa Hadiah Latihan Persekutuan*), Malaysia Public Service Department
5. **2019 - External Interviewer Panel, Federal Training Prize Scholarship** (*Biasiswa Hadiah Latihan Persekutuan*), Malaysia Public Service Department,
6. **2018 - External Interviewer Panel, Federal Training Prize Scholarship** (*Biasiswa Hadiah Latihan Persekutuan*), Malaysia Public Service Department
7. **2018-2020 - Internal and External Auditor** UiTM (Civil Diploma and Bachelor's degree Programme)
8. **2020 - Co- Moderator for Humanitarian Lab 3.0: Climate Action for Community Resilience Program**, MERCY Malaysia and UiTM

9. **2019-2021 - Subject Expert Matter for Project Assessment and Evaluation, Bank Pembangunan Berhad**
10. **2018- Organizer Committee and Technical Committee, FELDA 2.0 Timber Design Competition 2018 (F2.0TDC2018), Malaysian Timber Industry Board**

AWARDS & RECOGNITIONS

1. **2021 – BRONZE Award**, 5th International Innovation, Design and Articulation (i-IDEA2020)
2. **2019 - GOLD Award**, 30th International Invention, Innovation & Technology (ITEX2019), International
3. **2019 - SILVER Award**, Invention, Innovation & Design Exposition (IIDEX 2019), National
4. **2019 - SILVER Award**, Invention, Innovation & Design Exposition (IIDEX 2019), National
5. **2019 - BRONZE Award**, Invention, Innovation & Design Exposition (IIDEX 2019), National
6. **2019 - SILVER Award**, National e-Content Development Competition (e-CONDEV2019), National
7. **2019 - Excellence Blended Learning Award 2019** (Student's Choice), Faculty of Civil Engineering
8. **2018 - GOLD Award**, Invention, Innovation & Design Exposition (IIDEX 2018), National
9. **2018 - GOLD Award**, Invention, Innovation & Design Exposition (IIDEX 2018), National
10. **2013 - SILVER Award**, International Innovation Design and Articulation (i-IDEA 2013), National
11. **2013 - Excellence Service Award 2013**, Universiti Teknologi MARA

RESEARCH GRANTS (Value of Total Grants:RM497,350)

Principal Investigator (PI)

1. **2021**
Fund: Construction Industry Development Board (CIDB)
Grant Amount: RM 29,452
Title: Development Of Embodied Carbon For Construction Materials Inventories And Guidelines Framework As Aguideline For Construction Industry In Malaysia
2. **2020-2022**
Fund: Fundamental Research Grant Scheme (FRGS), **Ministry of Higher Education**
Grant Amount: RM74,200
Title: *Greenhouse Gas Emissions Model due to Equipment Idling in Construction Operation*
3. **2020-2022**
Fund: Dana Bestari, Research Management Centre (RMC), **Universiti Teknologi MARA**
Grant Amount: RM 25,000
Title: *UiTM Shah Alam Towards Low Carbon Campus Through Carbon Reduction in Transportation*
4. **2012-2015**
Fund: Dana Pembudayaan Penyelidikan RAGS, **Ministry of Science, Technology and Innovation (MOSTI)**
Grant Amount: RM 75,000
Title: *Heat Treated Hardwood Timbers Chemical and Mechanical Characterization, Completed*
5. **2009-2010**
Fund: Dana Kecemerlangan, Institut Pengurusan Penyelidikan (RMI), **Universiti Teknologi MARA**
Grant Amount: RM 8950
Title: *Development of Unidirectional Kenaf Fiber Reinforced Plastic Composites, Completed*

Co-Principal Investigator (Co-PI)

1. 2021-2022

Fund: Construction Industry Development Board (CIDB)

Grant Amount: RM 29,452

Title: Kajian Perkhidmatan Pengumpulan Pengurusan Dan Analisa Data Kualitatif Dan Kuantitatif Bagi Pelaksanaan Pengukuhan Pendaftaran Kontraktor

2. 2021-2022

Fund: IIUM-UUMP-UITM

Grant Amount: RM 20,000

Title: Elucidation Of Fermentative Hydrogen Pathway For Conversion Of Acid Present In Landfill Leachate

3. 2021-2022

Fund: IIUM-UUMP-UITM

Grant Amount: RM 20,000

Title: Microbiocenosis Assessment on Taxonomic Composition Of Landfill Waste

4. 2020-2021

Fund: Global Research Reputation (GRR), Research Management Centre (RMC), **Universiti Teknologi MARA**

Grant Amount: RM 29,000

Title: *Online Bridge Health Monitoring System in Malaysia*

5. 2020-2021

Fund: Geran Penyelidikan Lestari COVID 19, Research Management Centre (RMC), **Universiti Teknologi MARA**

Grant Amount: RM 20,000

Title: *Development of Online Monitoring Device for Surface Water Monitoring During COVID-19 Pandemic*

6. 2020-2022

Fund: Fundamental Research Grant Scheme (FRGS), **Ministry of Higher Education**

Grant Amount: RM58, 000

Title: *Successful Implementation of Industry 4.0 among Small and Medium Enterprise (SME) in Malaysian Construction Industry*

7. 2020-2022

Fund: Lestari Grant, Research Management Centre (RMC), **Universiti Teknologi MARA**

Grant Amount: RM 20,000

Title: *Pengukuran Tahap Kecenderungan Menuntut Ilmu Di Kalangan Orang Asli Menggunakan Modul UDRL*

8. 2018-2020

Fund: Fundamental Research Grant Scheme (FRGS), **Ministry of Higher Education**

Grant Amount: RM52, 000

Title: *Absorptive Capacity Model of Building Information Modelling (BIM) Implementation among Construction Project Stakeholders in Malaysia*

9. 2012-2014

Fund: **Science Fund**

Grant Amount: RM 59,200

Title: *Late Movers Environmental Dynamic Capabilities in International Market*, Completed

10. 2010-2012

Fund: **Majlis Logistik Malaysia (MLC)**

Grant Amount: RM 76,000

Title: *Study of Cargo Flow Projection for Main Road in Malaysia*, Completed

CONSULTANCY AND PROFESSIONAL SERVICE (Value of Total Consultations:RM634,600)

1. **2020-2021**

Institution/Organization: **Ipoh City Council (Majlis Bandaraya Ipoh)**

Consultation Amount: RM 250,000

Title: Development of Ipoh Towards Low Carbon City Blueprint

2. **2020-2021**

Institution/Organization: **Malaysia Development Bank (BPMB)**

Consultation Amount: RM 73,300

Title: Data Collection and Management for Research Evaluation and SDG Impact Assessment Framework, Phase II

3. **2019-2020**

Institution/Organization: **Malaysia Development Bank (BPMB)**

Consultation Amount: RM75,000

Title: Data Collection and Management for Research Evaluation and SDG Impact Assessment Framework, Phase I

4. **2012-2013**

Institution/Organization: **Construction Research Institute of Malaysia (CREAM)**

Consultation Amount: RM218,800

Title: Non-Corrodible Materials for Strengthening and Enhancing the Durability of Concrete Structures

5. **2008-2009**

Institution/Organization: **Persatuan Bina Semula Kenderaan Perdagangan Malaysia**

Consultation Amount: RM17,800

Title: The Automotive Remanufacturing Industry in Malaysia: Issues and Challenges

RECENT PUBLICATIONS

1. **Mustaffa, N. K., Isa, C. M. M., and Ibrahim, C. K. I. C.** (2021). Top-down bottom-up strategic green building development framework: Case studies in Malaysia. *Building and Environment*, 108052. Scopus:Q1, WoS:Q1
2. Ibrahim, N., Isa, C. M. M., Preece, C. N., **Mustaffa, N. K.**, & Najwa, A. (2021). Development of entry location assessment criteria (ELAC) model for Malaysian construction firms in international markets. *Journal of Academia*, 9(1), 21-38.
3. M.I. Che Maznah, M.N. Fatin Najwa, **M. Nur Kamaliah**, L.Jeffery, A.S. Sahithi, C.N.Preece (2021), Sustainable Townships and Sustainable Homes: Public Perceptions, *Journal of the Society of Automotive Engineers Malaysia*, Volume 5, Issue 3.
4. Isa, M., **Mustaffa, N. K.**, & Joseph, E. O. (2020). Development of Psychomotor Skill and Programme Outcome Attainment of Civil Engineering Students in Malaysia. *Asian Journal of Vocational Education And Humanities*, 1(2), 14-38.
5. **Nur Kamaliah Mustaffa**, Che Maznah Mat Isa & Verona Ramas Anak Joseph, *A 3D BIM-aided Construction Risk Management Framework for Construction Projects in Malaysia*.

- Proceedings of the 5th NA International Conference on Industrial Engineering and Operations Management. Detroit, Michigan, USA, August 10 - 14, 2020.
6. **Mustaffa, N. K., & Aziz, M. F. H. A. (2020).** *Minimizing Emissions and Cost Through Reducing Equipment Idle Time in Concreting Operations*. In The 10th International Conference on Engineering, Project, and Production Management (pp. 139-150). Springer, Singapore.
 7. **Mustaffa, N. K. (2020).** *Alternative Configuration in Earthmoving Operations for Minimizing Unit Emissions and Unit Cost*. International Journal of Integrated Engineering, 12(1), 297-303.
 8. **Mustaffa, N. K., & Isa, C. M. (2020),** *The perception and challenges of construction stakeholder towards emissions reduction in Malaysia*, IOP Conference Series Materials Science and Engineering, 849:012051, DOI: 10.1088/1757-899X/849/1/012051
 9. **Mustaffa, Nur Kamaliah, Mat Isa,** Che Maznah, Preece, Christopher Nigel (2020). *Importance of Risk Management Knowledge in Career Advancement*. *Asian Journal of Research in Education and Social Sciences*, [S.I.], v. 2, n. 1, p. 15-26, Apr. 2020. Available at: <<http://103.8.145.246/index.php/ajress/article/view/8593>>
 10. Che Maznah Mat Isa, Muhammad Taufiq Razak & **Nur Kamaliah Mustaffa (2020).** *Implementation of Risk Management in Construction Projects for a Government-Linked Company (GLC)*. International Journal of Business and Technology Management. e-ISSN: 2682-7646. Vol.2, No. 2, 28-38, 2020. <http://myjims.moe.gov.my/index.php/ijbtm>.
 11. Shahrin Hamid, Che Maznah Mat Isa, Shamer N. Felix & **Nur Kamaliah Mustaffa (2020).** *Sustainable Management using Recycle and Reuse of Construction Waste Materials in Malaysia*. ESTEEM Academic Journal. Vol.16, June 2020, 47-58.
 12. Norizzati Ibrahim, Che Maznah Mat Isa, Christopher Nigel Preece, **Nur Kamaliah Mustaffa & Atiqah Najwa (2020),** *Development of Entry Location Assessment Criteria (ELAC) Model for Malaysian Construction Firms in International Markets*. Journal of Academia. In Press.
 13. Che Maznah Mat Isa, **Nur Kamaliah Mustaffa,** Christopher Nigel Preece & Lee Wei Koon (2020). *Enhancing Conceive-Design-Implement-Operate and Design Thinking (CDIO-DT) Skills through Problem-Based Learning Innovation Projects*. International Conference on Engineering Education (ICEED2019) (6-9 Nov. 2019). Published online IEEE Publishing February 2020.
 14. Nur Izzati Ab. Rani, Che Maznah Mat Isa, Muhammad Taufiq Razak, **Nur Kamaliah Mustaffa & Fatin Najwa Mohd Nusa (2020).** *Risk Allocation in Construction Projects for Government-Linked Company (GLC)*. 11th IEEE Control & System Graduate Research Colloquium (ICSGRC 2020) on 8th August 2020.
 15. **Nur Kamaliah Mustaffa.** *Minimizing Emissions and Cost through Reducing Equipment Idle Time in Concreting Operations*, 10th International Conference on Engineering, Project and Production and Management, 2-4 September 2019, Berlin Germany, Scopus Indexed Conference.
 16. **Nur Kamaliah Mustaffa** and Che Maznah Mat Isa (2019), *Perception and Challenges of Construction Stakeholder towards Emissions Reduction in Malaysia*, presented at 4th International Conference on Construction and Building Engineering & 12th Regional Conference in Civil Engineering (ICONBUILD & RCCE 2019), 20-22 August 2019, Scopus Indexed Conference.

17. Che Maznah Mat Isa, **Nur Kamaliah Mustaffa** and Christopher Nigel Preece. *Enhancing Conceive-Design-Implement-Operate and Design Thinking (CDIO-DT) Skills Through Problem-Based Learning Innovation Projects*. Accepted and to be presented at International Conference on Engineering Education (ICEED2019), Kanazawa, Japan, 6-9 November 2019. Scopus Indexed Conference.
18. **Mustaffa, N.K.** and Carmichael, D.G. (2018), *Concreting operations—the relationship between unit costs and unit emissions*, International Journal of Construction Management, 1-9. (Scopus & ISI Indexed, IF: 1.87, Q1).
19. Carmichael, D.G. and **Mustaffa, N.K.** (2018), *Emissions and production penalties/bonuses associated with non-standard earthmoving loading policies*, Construction Innovation, 18 (2), (Scopus & ISI Indexed, IF: 2,12, Q1).
20. Carmichael, D.G., **Mustaffa, N.K.** and Shen, X. (2018), *A utility measure of attitudes to lower-emissions production in construction*. Journal of Cleaner Production, (Scopus & ISI Indexed, IF: 4.959, Q1).
21. Che Maznah Mat Isa, Afifah Azmina Ahmad Amin, Hamidah Mohd Saman, Janmaizatulriah Jani, Mazidah Mukri, **Nur Kamaliah Mustaffa**. *Engineering Student's Program Outcome Attainment of the 21st Century Skills through Individual and Team Work*. Presented at International Conference on STEM Education (iSTEM'18). 23-24 January 2019. Penang, Malaysia. To be published in Scopus indexed journal (Malaysian Journal of Learning and Instruction (MJLI)).
22. **Mustaffa, N.K.** (2018), *Alternative Configuration in Earthmoving Operations for Mini-Mizing Unit Emissions and Unit Cost*, International Conference on Sustainable Construction and Structures (ISuCOS 2018), 3 - 4 December 2018, The Federal Kuala Lumpur, Malaysia, (SCOPUS indexed).
23. Noh, N.I.F.M., Ahmad, Z. and **Mustaffa, N.K.** (2016), *Effect of Heat Treatment on Timbers—A Review*. In Regional Conference on Science, Technology and Social Sciences (RCSTSS 2014) (pp. 57-67). Springer, Singapore.
24. Abdullah, M.J., Ahmad, Z., Daud, A.F.M. and **Mustaffa, N.K.** (2015), *Compressive Strength and Water Absorption Characteristics of Brick Using Quarry Dust*. In International Civil and Infrastructure Engineering Conference (InCIEC 2014), (pp. 51-64). Springer, Singapore.
25. **Mustaffa, N.K.**, Adnan, H. and Zakaria, M.Z. (2012). *Entry strategies for Malaysian construction related companies going abroad*. Australian Journal of Basic and Applied Sciences, 6(6), pp.323-330.
26. Isa, C.M.M., **Mustafa, N.K.**, Saman, H.M., Nasir, S.R.M. and Ibrahim, C.K.I.C. (2012), *Factors influencing Malaysian construction firms in venturing into international market*. In Innovation Management and Technology Research International Conference (ICIMTR 2012), (pp. 168-173). 21 - 22 May, Melaka, Malaysia (SCOPUS indexed).
27. Mat Isa, C.M., **Mustaffa, N.K.**, Saman, H., Nasir, S.R. and Ibrahim, C.K. (2012) *Determining Malaysian Construction Firms' Internal and External Factors to Venture into International Market*. The 1st International Conference on Innovation, Management and Technology Research (ICIMTR2012), 21 - 22 May, Melaka, Malaysia (SCOPUS indexed).
28. Ahmad, Z., **Mustaffa, N.K.** and Ribot, N.M. (2012), *Unidirectional kenaf fiber reinforced plastic composite: Strength and fracture toughness*. Journal of Mechanical Engineering, 9(2).
29. Ribot, N.M.H., Ahmad, Z. and **Mustaffa, N.K.** (2011), *Mechanical Propertise of Kenaf Fiber Composite Using Co-Cured in-Line Fiber Joint*. International Journal of Engineering Science and Technology, 3(4), pp.3526-34.
30. Isa, C.M., Ibrahim, C.K.I., Baki, A.M., Ghani, M.K., **Mustaffa, N.K.** and Nasir, S.M. (2011), *Timing of entry by Malaysian construction firms into the international construction market*. In

International Construction Business and Management Symposium (ICBMS2011) (No. 2007, pp. 1-9), ISSN/ISBN: 978-967-41283-2-6.

31. **Mustaffa, N.K.**, Ahmad, Z. and Ribot, N.M.H. (2010), *Development of unidirectional kenaf fiber reinforced plastic composite*. World Engineering Congress 2010, ISSN/ISBN: 978-967-960-145-5.
32. **Mustaffa, N.K.**, Ahmad, Z. and Ribot, N.M.H. (2010), *Mechanical Properties of Unidirectional Kenaf Fiber Reinforced Plastic Composites*, International Conference on the Advancement of Material and Nanotechnology (ICAMN 2010), ISSN/ISBN: 976-3-03785-449-5.
33. **Mustaffa, N.K.**, Saman, H.M, Kwak, H-G. (2009), *Structural Behavior of Reinforced Foamed Concrete Slab*, 10th International Conference on Concrete Engineering and Technology (CONCET 2009), ISSN/ISBN:978 983 9414 86 8.
34. **Mustaffa, N.K.**, Baba, B., Adnan, M.A., Fauzi, M.A. (2009), *Rebuilt Commercial Vehicle Industry from Buyers Perspective*, Conference on Scientific & Social Research (CSSR 08'09), ISSN/ISBN: 978-967-305-313-1.

POST GRADUATE SUPERVISIONS

PHD

1. Verona Ramas Anak Joseph (2020268364), Development of Carbon Reduction Management Framework, (2020- Ongoing)
2. Hazrin Hazizi Hussain Sabri (2020524587), Development of Late Payment Strategic Framework (LPSF) For Small and Medium Contractors In Malaysia, (2020- Ongoing)
3. Norizzati Binti Ibrahim (2019116469), An Integrated Multi-Entry Decision Assessment Framework in International Market, (2018- On Going)
4. Mohd Amin Bin Zulkifli (2019683166), Development of Low Carbon City Framework (2019- On Going)

MASTER BY COURSEWORK

1. Zuraida Binti Zainal (2016118937), The Implementation of Traffic Impact Assessment: A Study On Challenges Faced by The Approving Authority in Shah Alam (2018-Completed)
2. Mohd Amin Bin Zulkifli, Low Carbon City Development in Shah Alam: Challenges and Strategies (2018-Completed)
3. Razin Barwin Bt Abdul Samad, Developing Risk Management Tools Between Government and Non- Government Organization with Bayesian Theorem Implementation, (2018-Completed)
4. Nur Edahyu Binti Abd. Karim (2018616936), Sustainability Impact Assessment for Urban Railway Project, (2018- Completed)
5. Verona Ramas Anak Joseph (2018613686), 3D BIM Application in Project Risk Management for Building Construction Project in Malaysia, (2018- Completed)

6. Muhammad Amirul Haffis Bin Zuber (2018442236), Feasibility Study on the Implementation of Waste to Energy, (2018- Completed)
7. Teh Izni Aisyah Mohd Walid, Social Impact Assessment on Development of Low Carbon City, (2019- Ongoing)
8. Mohd Sobhi Bin Muzni (2018687894), The Identification of Rework Causes: Helathcare Facility Projects in Malaysia (2020-Completed)
9. Nur Shuhada Aishah Shahidan (2019828556), The Effectiveness of Green Assessment Towards Carbon Reduction Emissions in Malaysia (2020- Ongoing)
10. Sheikh Mohammed Syariff AlHabshee Mohamad Sa'aimon (2019131447), Project Prioritisation of Government Road Projects in Selangor (2020- Completed)
11. Nur Shuhada Binti Nor Shahrudin (2020956557), Sustainability Development Practices in High Education Institution (HEI) (2021- Ongoing)
12. Omar Farhan Bin Padzil, (2020474636), Impact Assessment Framework for Potential Development Projects (2021- Ongoing)
13. Izzah Syafiqah Daruzzaman (2020291472), UiTM Shah Alam Towards Low Carbon Campus Through Carbon Reduction in Transportation, (2021-Ongoing)
14. Nurul Atiqah Binti Mukhtar (2020410734), Assessment Indicators for the Sustainability of Infrastructure Projects, (2021- Ongoing)
15. Muhamad Hamed Saharani (2020727483), The Study on Effectiveness of Sustainability in Civil Engineering Curricula Among UiTM Civil Engineering Graduates, (2021- Ongoing)

INVENTION & INNOVATION COMPETITION

1. **Bronze Award**, i-IDEA 2021 5th International Innovation, Design and Articulation (i-IDEA2020), TECHCOOL KIT: An Innovative Toolkit for Teaching and Technology Entrepreneurship, 8-24 March 2021.
2. **Gold Award**, ITEX2019, 30th International Invention, Innovation & Technology Exhibition, Malaysia. myIIP System using Bloom's Tax to Enhance 21st Century Skills towards Industrial Revolution 4.0. 2-4 May 2019. Aquaria KLCC, Kuala Lumpur.
3. **Silver Award**, IIDEX 2019, Invention, Innovation & Design Exposition, Monte Carlo Simulation Model for Green Concreting Operations, Dewan Agung Tuanku Canselor, UiTM Shah Alam, 10-15 September 2019.
4. **Silver Award**, IIDEX 2019, Invention, Innovation & Design Exposition, *myCDIO* Skill Progression Monitoring System, Dewan Agung Tuanku Canselor, UiTM Shah Alam, 10-15 September 2019.
5. **Bronze Award**, IIDEX 2019, Invention, Innovation & Design Exposition, CSIO Model for Construction Firm, Dewan Agung Tuanku Canselor, UiTM Shah Alam, 10-15 September 2019.
6. **Excellence Blended Learning Award 2019** (Student's Choice), Faculty of Civil Engineering, UiTM
7. **Silver Award**, e-CONDEV 2019, National e-Content Development Competition. Construction Technology, 7 August 2019, Dewan Agung Tuanku Canselor, UiTM Shah Alam.

8. **Gold Award**, IIDEX2018, Invention, Innovation & Design Exposition: Championing Innovation Revitalizing Communities, myIIP System using Bloom's Tax towards Industrial Revolution 4.0. 24 – 28 September 2018.
9. **Gold Award**, IIDEX2018, Invention, and Innovation & Design Exposition: Championing Innovation Revitalizing Communities, Green-Cost Friendly: Monte Carlo Model for Earthmoving Operations. 24 – 28 September 2018.
10. **Silver Award**, i-IDEA2013, Co-cured In Line Joint Fiber Reinforced Plastic Composites, International Innovation Design and Articulation (i-IDEA 2013), UiTM Arau, Perlis, 28-30 May 2013.

PATENT AND COPYRIGHTS

1. Green-Cost Friendly: Monte Carlo Model for Earthmoving Operations- Copyrights (Registered with MyIPO)
2. myIIP System using Bloom's Tax to Enhance 21st Century Skills towards Industrial Revolution 4.0 - Copyrights (Registered with MyIPO)