

NORSALISMA ISMAIL (Dr)

SENIOR LECTURER

Centre of Studies for Building Surveying

Faculty of Architecture, Planning and Surveying
Universiti Teknologi MARA,
40450 Shah Alam,
Selangor, Malaysia.

+603-5544 4252 / +6016-3151805

salisma999@uitm.edu.my



Areas of Expertise

Built Environment – Sustainable Development and Waste management – Development of Advanced Construction Materials utilising Natural, Facilities management

Personal Information

NORSALISMA ISMAIL

Centre of Studies for Building Surveying
Faculty of Architecture, Planning and Surveying
Universiti Teknologi MARA,
40450 Shah Alam,
Selangor, Malaysia.

Academic Qualifications

PhD in Advanced Materials, University of Glamorgan, Wales UK

MSc. in Facilities Management, UTM, Malaysia

BSc. (Hons) in Quantity Surveying, University of Glamorgan, wales, UK

Diploma in Building, Institute Technology MARA, Malaysia

Professional Members

1. Member of The Malaysian Association of Facility Management (MAFM)

Teaching and Learning

- BSR512 Measurement and Estimating I for Bachelor (Hons) Building Surveying
- BSR452 Building Construction and materials II for Bachelor (Hons) Building Surveying
- BSR562 Measurement and Estimating II for Bachelor (Hons) Building Surveying
- BSS512 Costing and Estimating I for Bachelor (Hons) Building Surveying
- BSS518 Fundamental research Methodology for Bachelor (Hons) Building Surveying
- BSS562 Costing and Estimating II for Bachelor (Hons) Building Surveying
- BSB701 Facilities management Framework for MSc Facilities Management

Student Supervision

MASTER OF SCIENCE (MSC BY RESEARCH)

No	Candidate/Title	Year Enrolled
1	DATIN NORANI BINTI AMAT 2016862322 (MSc Built Environment- AP781) "Building Information Modelling (BIM) Adoption for Building Maintenance Among Local Authorities" (Main Supervisor)	2020 Completed

MASTER OF SCIENCE (BY TAUGHT)

No	Candidate/Title	Year Enrolled
1	MUHAMAD IZZAT BIN NOR BAHARIN 2019761391 (Dissertation - BSB710) "The Implementation of Environmental Management System (EMS) in Factories Waste management: Issues and Challenges" (Main Supervisor)	2020 Completed
2	MOHAMMAD HAFIFI BIN ROSLAN (Dissertation - BSB710) "Safety Practice of maintenance for High Rise Building Façade" (Main Supervisor)	2018 Completed

3	NURUL IZYAN BINTI ABDUL WAHAB 2015641162 (Dissertation - BSB710) "Sustainable Construction Waste Management in Malaysia: Issues & Challenges" (Main Supervisor)	2017 Completed
4	SITI AISHAH BINTI MOHD FAIZ KERIS TAN (Dissertation - BSB710) "Customer satisfaction on Cleanliness, safety and Security, and Space of The Facilities at Rest and Service" (Main Supervisor)	2017 Completed
5	MOHD YUSAINI BIN MOHD YUNUS 2014941219 (Dissertation - BSB710) "A Compliance of Energy Efficiency Practices in The Existing Government Buildings at Putrajaya" (Main Supervisor)	2016 Completed
6	NURUL ASMY BINTI CHE RAMELI (Dissertation - BSB710) "An Adaptation of Green Practices in Existing Public Library Building and Facilities at Kota Bharu Kelantan" (Main Supervisor)	2016 Completed
7	ZUHANA BINTI ALI (Dissertation – BSB710) "A Study on Current Practice of Waste Management in Construction Industry" (Main Supervisor)	2015 Completed
8	NUR AIDA BINTI WALID (Dissertation – BSB710) "Level of Users Satisfaction towards The Facilities Services at MARA Professional Collage Beranang" (Main Supervisor)	2015 Completed
9	SHARINA BINTI IBRAHIM 2011964705 (Dissertation – BSB710) "The Significance of Environmental Indoor Quality (IEQ) Towards Users' satisfaction Level" (Main Supervisor)	2013 Completed

BACHELOR DEGREE DISSERTATION (MAIN SUPERVISOR)

No	Candidate/Title	Year Enrolled
1	AHMAD FAREZ AMMAR BIN AZHAR 2018695934 "The implementation of sustainable construction waste management for public project in Selangor"	Oct 2020 - Mac 2021
2	AIRIE SYAZREN BIN SAFFRI 2018298312 "The challenges of using sustainable timbercrete wall components for low-cost housing in Malaysia"	Oct 2020 - Mac 2021
3	MUHAMMAD ASHRAF BIN AZMAN 2019818872 "Space audit for academic spaces in public universities".	Oct 2020 - Mac 2021

4	ELMER BUHAVAN PRIMUS 2018627904 “issues on the implementation of occupational safety and health (OSH) on construction projects in Sabah”.	Oct 2020 - Mac 2021
5	MUHAMMAD ASYRAF DANIAL BIN EFFANDY 2018238454 “Issues and challenges on applying green building technology for domestic building in Muar, Johor”.	Oct 2020 - Mac 2021
6	SABRINA ANAK MISOR 2019695302 “Awareness on the importance of building condition assessment among house purchasers during defect liability period”.	Oct 2020 - Mac 2021
7	IZAURA BINTI MOHD JALI HISSAN 2019848026 “Sustainable concrete for construction of domestic buildings in Selangor”.	Oct 2020 - Mac 2021
8	WAN MUHAMMAD IDHAM BIN WAN ISMAIL 2017130949 “Issues on quality maintenance management practice on exclusive high rise residential building in Shah Alam”.	Mac – Oct 2020
9	MUHAMMAD IQBAL BIN ABD RAZAK 2017639398 “The challenges on solid waste management at construction site: case study Shah Alam”.	Sept 2019 – Mac 2020
10	SYAHIDATUL FILZAH BINTI ABDUL KADIR 2018299964 “Recycling practices among student in residential hostel, UiTM, Shah Alam campus”.	Sept 2019 – Mac 2020
11	INTAN LYANA BINTI MOHAMAD 2017696242 “Occupants' awareness on ventilation system in low-cost residential apartment, seksyen 7 Shah Alam”.	Sept 2019 – Mac 2020
12	MUHAMMAD RAIHAN BIN MOHD RAZLAN 2018262678 “Solid waste minimizations at UiTM, Shah Alam campus cafeterias”.	Sept 2019 – Mac 2020
13	NUR SURAYA AISHAH BINTI ROSLAN 2017696186 “The study on impact of sick building syndrome to the workers performance at Majlis Perbandaran Muar, Johor	Sept 2019 – Mac 2020
14	ADLINA SYAZANA BINTI AZMAN 2018657184 “The significance of thermal comfort parameters in office building towards building occupants' satisfaction”.	Sept 2019 – Mac 2020
15	NUR FARAHWAHIDAH BINTI MOHAMMAD ISAM 2018262194 “The practices of solid waste collection and transportation at Jasin district, Melaka”.	Sept 2019 – Mac 2020
16	DEANIE JENTAU ANAK BONNIE 2017655206 “Students' perception on effects of lighting system at academic buildings at faculty of architecture, planning and surveying (FSPU) UiTM, Shah Alam”.	Mac – Sept 2019
17	SITI NURIZZATIE SYAHIRAH BINTI CHE SIDEK 201769621 “The implementation of green building toward green facilities management at office building”.	Mac – Sept 2019
18	MOHAMAD NOOR ARIFF BIN SUDIN 2017655228 “Occupant satisfaction on facilities and maintenance management for mixed used development building”.	Mac – Sept 2019
19	NIA ELLYA BINTI MOHD YUSOP 2017655208 “The significance of good practice on security and safety for higher institutional buildings at UiTM, Shah Alam”.	Mac – Sept 2019
20	AZIZI BIN MUSTHAFA 2016283792 “Utilization of coconut waste for eco-friendly bricks”.	Mac – Sept 2019

21	RAHAIDATUSHIMA BINTI IBRAHIM 2016669316 "A study on construction waste minimization at construction site".	Mac – Sept 2019
22	MOHAMAD SHAZREEN BIN SEMAN The Evaluation on Labour Shortage in Malaysian Construction Industry	Sept 2017 – Mac 2018
23	UMI AMIRAH BINTI MD RADZI "Assessing the Implementation of waste Separation in Household Waste management at Sungai Petani, Kedah".	Sept 2016 – Mac 2017
24	NUR SYAMIRA BINTI HASHIM "Effective maintenance od Drainage System to Minimise Flash Flood in Urban Area".	Sept 2015 – Mac 2016
25	MUHAMMAD ZAHIR BIN ZULKERNAIN "Space management and Space Utilisation in Office Building".	Sept 2015 – Mac 2016
26	NUR NADIAH BINTI SUDIN "Safety Culture in Safety and Health in Construction Works".	March – Sept 2015
27	NUR ASILAH BINTI ABDUL GHANI "Effects of Lighting System on Employees Performance".	Sept 2014 – Mac 2015

Publications

No INTERNATIONAL JOURNALS

REFEREED/SCOPUS OR OTHER WEB OF SCIENCE INDEX JOURNALS

- 1 Mohamad Nidzam Rahmat, **Norsalisma Ismail**, (2018). "Effect of optimum compaction moisture content formulations on the strength and durability of sustainable stabilised materials". *Applied Clay Science*, 157, 257-266. <https://doi.org/10.1016/j.clay.2018.02.036>
Scopus (Q1)
- 2 Mohamad Nidzam Rahmat, **Norsalisma Ismail**, & John Kinuthia, (2016). "Strength and environmental evaluation of stabilised Clay-PFA eco-friendly bricks". *Construction and Building Materials*, 125, 964- 973. <https://doi.org/10.1016/j.conbuildmat.2016.08.114>
Scopus (Q1)
- 3 Mohamad Nidzam Rahmat, **Norsalisma Ismail**, (2011). "Sustainable stabilisation of the Lower Oxford Clay by non-traditional binder". *Applied Clay Science*, 52(3), 199-208. <https://doi.org/10.1016/j.clay.2011.02.011>
Scopus (Q1)
- 4 Mohamad Nidzam Rahmat, Sharina Ibrahim, **Norsalisma Ismail** (2020), "Ceramic Dust Based Binder for Sustainable Stabilisation of Low Flood-Plain Soil". *Engineering Journal University Chulalongkorn*
Scopus Q2 (In Press)
- 5 Muhamad Redzwan Raffe, Mohamad Nidzam Rahmat, **Norsalisma Ismail** (2015), "Stabilised ceramic dust as potential sustainable construction components". *Advanced Materials Research Vol 1113*, pp 168-174
Scopus Index

- 6 **Norsalisma Ismail**, Mohamad Nidzam Rahmat, Shahrul Yani Said (2015), "Success Factors of Implementing Green Building in Malaysia, Proceedings of the Colloquium on Administrative Science and Technology, Oct. 2015. Doi: 10. 1007/978-981-4585-45-3_31
- 7 Mohamad Nidzam Rahmat, **Norsalisma Ismail**, (2018) "*Production of Low-Carbon Construction Components from Industrial Scheduled Wastewater Sludge*". International Journal of Advances in Science, Engineering and Technology (IJASEAT) Vol 7, Issue 1 (Special Issue 2) ISSN(p): 2321-8991 ISSN(e): 2321-9009 Peer-Reviewed, OAJI Index, ESJI Index Open Access
- 9 **Norsalisma Ismail**, Mohamad Nidzam Rahmat, (2018) "*The Effect of Moisture Content on Strength Development of Stabilised Materials for Construction Components*". International Journal of Advances in Mechanical and Civil Engineering (IJAMCE), Vol 6, Issue 2. ISSN(p):2394-2827 Peer-Reviewed, Scholarly online, Open Access
- 10 Mohamad Nidzam Rahmat, **Norsalisma Ismail**, (2018), "Clay-Pfa Eco-Bricks: Enhancing the Engineering Properties with Sustainable Blended Binders" International Journal of Advances in Mechanical and Civil Engineering (IJAMCE), Vol 6, Issue 1. ISSN 2394-2827 Peer-Reviewed, Scholarly online, Open Access
- 11 Sharina Ibrahim, Mohamad Nidzam Rahmat, **Norsalisma Ismail**, (2018), "*Utilisation of Industrial Wastes to Intensify the Engineering Properties of Low-Flood Plain Soil*". International Journal of Advances in Science, Engineering and Technology (IJASEAT) Vol 7, Issue 1 (Special Issue 2) ISSN(p): 2321-8991 ISSN(e): 2321-9009 Peer-Reviewed, OAJI Index, ESJI Index Open Access
- 12 Norani Amat, **Norsalisma Ismail**, Nor Rima Muhamad Ariff (2019), Building Information Modelling (BIM) Adoption for Building Maintenance Among Local Authorities in Malaysia. International Journal of Advances in Mechanical and Civil Engineering, ISSN: 2394-2827, Vol.6, Issue-2, Peer-Reviewed, OAJI Index, ESJI Index Open Access
- 13 Ani Maslina Salleh, **Mohamad Nidzam Rahmat**, Norsalisma Ismail, (2018) "*Eco-SWPS Bricks: Sustainable Construction Components from Industrial Waste*" International Journal of Advances in Mechanical and Civil Engineering (IJAMCE), Vol 6, Issue 1. ISSN 2394-2827 Peer-Reviewed, Scholarly online, Open Access

Research Grants and Contracts

No	Research Projects Title/ /Grant Provider/Period	Funds
1	2018-2020 Co-Researcher "Mechanical and Durability Properties of Soil Stabilised Microbial-Induced Calcite Precipitation". UiTM Lestari Project code: 600-IRMI/Dana KCM 5/3/LESTARI (001/2018)	RM 15,000.00
2	2018-2020 Co-Researcher "Development of Low-Cost Low-Carbon Eco-Bricks From Municipal Solid Waste Fly Ash". UiTM Lestari Project code: 600-IRMI 5/3/LESTARI (009/2018)	RM 20,000.00
3	2018-2020 Co-Researcher "IBS Slab Incorporating HDPE Bubble Deck and Quarry Dust Self-Compacting Concrete" UiTM REI Project code: 600-IRMI/MYRA 5/3/REI (001/2018)	RM 32,000.00

4	2017-2019 Co-Researcher "Saving Global Resources with Eco-Stabilisation – Extenuation to Flooded Low Bearing Capacity Soil" UiTM Lestari Project code: 600-IRMI/MyRA 5/3/LESTARI(K) (239/2017)	RM 20,000.00
5	2017-2019 Principal Investigator "The Effects of moisture Content on Sustainable Stabilised Materials for Building Components" UiTM Lestari Project code: 600-IRMI/MyRA 5/3/LESTARI (K) (240/2017)	RM 20,000.00
6	2014-2016 Co-Researcher Façade Access for Mosques: Maintainability Approach for Optimum Life Cycle Cost, 600-IRMI 5/3/LESTARI (0165/2016)	RM 20,000.00
7	2012-2014 Co-Researcher "Industrial Trial Mix Composition of PFA and Steel Slag in Sun Baked Pressed Bricks" UiTM RIF Project code: 600-IRMI/DANA 5/3 RIF (280/2012)	RM 32,000.00
8	2012-2014 Co-Researcher "Sustainable Stabilisation of Teluk Kapas Landfill Soil with Agriculture Waste" UiTM RIF Project code: 600-IRMI/DANA 5/3 RIF (209/2012)	RM 32,000.00
9	2012-2014 Principal Investigator "Critical Success Factor (CSF) of Implementing Green Building in Malaysia" UiTM RIF Project code: 600-IRMI/DANA 5/3 RIF (210/2012)	RM 20,000.00

Consultation & Expertise

Policy Maker/Standards/Guidelines/Procedure/Acts

1. Module Moderator, Open Universiti Malaysia. SMPM5103 Procurement and Measurement in Facility Management. June 2016.
2. Module Writer, Open Universiti Malaysia. EBIM4203 Maintainability Facilities. Jan 2016
3. Module Writer, Open Universiti Malaysia. EBGB4103 Green Buildings. April 2015
4. Review on Conference of Heads of Academic Department (CHAD). 2016

Innovation, Commercialization & Entrepreneurial

NO	INVENTION
1	2020 Platinum Award Mohamad Nidzam Rahmat, Norsalisma Ismail, Ani Maslina Saleh "GLAM04: Environmentally Friendly Soil Stabiliser for Infrastructure Use". IIDBEEEX2020. FSPU, UiTM
2	2020 Platinum Award Muhamad Fakhri Pauzi, Mohamad Nidzam Rahmat, Norsalisma Ismail "Sustainable Utilisation of Paper Mill Sludge Ash for The Manufacture of Building Bricks". IIDBEEEX2020, FSPU, UiTM.
3	2020 Gold Award Siti Nursyuhada Shariff Azri, Mohamad Nidzam Rahmat, Norsalisma Ismail "Lignocellulose Bricks for Domestic Infrastructure" IIDBEEEX2020, FSPU, UiTM

- 4 2020 Gold Award Ani Maslina Saleh, Mohamad Nidzam Rahmat, Norsalisma Ismail "LSP Bricks: An Eco-Complaisant Building Components" IIBBEEEX, FSPU, UiTM.
- 5 2019 **FINALIS**: Mohamad Nidzam Rahmat, Norsalisma Ismail, Rugayah Hashim "Utilisation of Local Waste Materials in the Production of Eco-Bricks for Local Communities" Anugerah Inovasi Negeri Selangor Peringkat Kebangsaan.
- 6 2018 **Gold Medal** Sharina Ibrahim, Mohamad Nidzam Rahmat, Norsalisma Ismail "Early Strength and Durability of Flood Susceptible Stabilised Clay Soil Using Industrial Waste." Innovation, Invention and Design IID UiTM Seremban
- 7 2018 **Silver Medal** Mohamad Nidzam Rahmat, Norsalisma Ismail, Muhammad Fathi Iqbal "Soil Stabilisation with Microbial Induced Calcite Precipitation (MICP)" Innovation, Invention and Design IID UiTM Seremban
- 8 2017 **Gold Medal** Nurul Syifaa' Alam Shah, Mohamad Nidzam Rahmat, Norsalisma Ismail, "Strength properties of RHA-PFA bricks for Non-Structural Building Components". 1st International Malaysia – Indonesia – Thailand Symposium on Innovation and Creativity (iMIT SIC2017), UiTM Perlis 26-27th July.
- 9 2017 **Silver Medal** Mohamad Nidzam Rahmat, Norsalisma Ismail, "CLAY-PFA Bricks: An Eco Solution for Saving Global Resources", 1st International Malaysia – Indonesia – Thailand Symposium on Innovation and Creativity (iMIT SIC2017), UiTM Perlis 26-27th July.
- 10 2017 **Bronze Medal** Nurul Ashikin Wahid, Mohamad Nidzam Rahmat, Norsalisma Ismail, "Agro Waste Application as Alternative Sustainable Construction Materials". 1st International Malaysia – Indonesia – Thailand Symposium on Innovation and Creativity (iMIT SIC2017), UiTM Perlis 26-27th July.
- 11 2017 **Bronze Medal** Sharina Ibrahim, Mohamad Nidzam Rahmat, Norsalisma Ismail, "A review on ECO stabilisation of clay Soil for Infrastructure Development in Low Flood Plain" 1st International Malaysia – Indonesia – Thailand Symposium on Innovation and Creativity (iMIT SIC2017), UiTM Perlis 26-27th July.
- 12 2017 **Bronze Medal** Ani Maslina Salleh, Mohamad Nidzam Rahmat, Norsalisma Ismail "Designed non Fired ECO Bricks for sustainable and Low Carbon Building Solid Waste Fly Ash Eco Bricks" 1st International Malaysia – Indonesia – Thailand Symposium on Innovation and Creativity (iMIT SIC2017), UiTM Perlis 26-27th July.
- 13 2017 **Bronze Award** Ani Maslina Salleh, Mohamad Nidzam Rahmat, "Solid Waste Fly Ash Eco-Bricks". IIDEX 2015, Faculty of Architecture, Planning and Surveying 25 May 2017.
- 14 2015 **Gold Medal and Overall Winner** Muhammad Redzwan Raffe, Mohamad Nidzam Rahmat, Norsalisma Ismail "Non-Metallic Minerals Waste as Alternative Raw Materials for Low Carbon Bricks" IIDEX FSPU Research Management Unit Faculty of Architecture, Planning and Surveying, UiTM
- 15 2015 **Bronze Award** Muhammad Redzwan Raffe, Mohamad Nidzam Rahmat, Norsalisma Ismail "Non-Metallic Minerals Waste as Alternative Raw Materials for Low Carbon Bricks" iidex201527-30 April 2015 Anjuran Research Innovation Business Unit RIBU, UiTM
- 16 2013 **Platinum Award** Muhammad Redzwan Raffe, Mohamad Nidzam Rahmat, Norsalisma Ismail "Stabilisation of Landfill Soil with Agriculture Wastes" IIDEX FSPU Research Management Unit Faculty of Architecture, Planning and Surveying, UiTM

- 17 2013 **Gold Medal** Norsalisma Ismail, Mohamad Nidzam Rahmat “Approaches to Optimum Compaction Moisture Content for the Manufacture of Sustainable Stabilised Materials” iidex2013 Anjuran Research Innovation Business Unit RIBU, UiTM
 - 18 2013 **Bronze Award** Mohamad Nidzam Rahmat, Norsalisma Ismail “Soil Stabilisation Utilising Wastepaper Sludge Ash” iidex2013 Anjuran Research Innovation Business Unit RIBU, UiTM
 - 19 2012 **First Prize Winner** Mohamad Nidzam Rahmat, Norsalisma Ismail “Soil Stabilisation Utilising Wastepaper Sludge Ash” IIDEX FSPU Research Management Unit
Faculty of Architecture, Planning and Surveying, UiTM
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Services & Administration

Faculty Committee

1. Head of Centre of Studies for Building Surveying, Faculty of Architecture, Planning and Surveying FSPU. UiTM Shah Alam. Oct 2011 – Oct 2013
2. Head of Program Bachelor of Building Surveying, Faculty of Architecture, Planning and Surveying FSPU. UiTM Shah Alam. 2006 - 2007
3. Committee Member. Professional Pensyarah (PROPENS) Monitoring. Faculty of Architecture, Planning and Surveying FSPU. UiTM Shah Alam. 01 Jan 2017 – 31 Dis 2020
4. Committee Member. Programme Syllabus and Curriculum for MSc Facility Management AP779. 1 Aug 2019 - July 2020

Work and Collaboration Experience

Year	CAREER SUMMARY
2010 – Present	Senior Lecturer, Centre of Studies for Building Surveying, Faculty of Architecture, Planning and Surveying, Universiti Teknologi MARA 40450 (UiTM)
2011 – 2013	Head of Centre of Studies for Building Surveying, Faculty of Architecture, Planning and Surveying FSPU. UiTM Shah Alam.
1995 – 1996	Quantity surveyor, Jurukur Antara Consultant QS, Subang Jaya, Selangor
1995	Procurement Manager, Saujana Melati Sdn. Bhd. Contractor Firm, Kuantan, Pahang
1992 – 1993	Assistant Quantity Surveyor, Syarikat Pembinaan Low Eng Moh, Kuala Lumpur

Awards & Recognitions

1. Certificate of Appreciation for attendance Module Writing Workshop. Open University Malaysia
Kuala Lumpur. 9 May 2015

Contribution to Society

1. Committee Member, Niners A+ Programme for SPM 2013, Sek. Men. Keb. Sek 9, Shah Alam.

Other Activities

NONE