

CURRICULUM VITAE

SHARIFAH AKMAM SYED ZAKARIA

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Pusat Pengajian Kejuruteraan Awam (PPKA), Kampus Kejuruteraan
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EDUCATION

PhD in Construction Management (Building), Faculty of Engineering and Built Environment,
University of Newcastle, Australia.

Thesis Title: “Decision-making in Technology Adoption: The Case for Industrialised Building
Systems (IBS) in the Malaysian Construction Industry”

[Thesis can be accessed via <http://hdl.handle.net/1959.13/1055369>]

MBA, School of Management, Universiti Sains Malaysia

Disertation Title: “Vision and Creativity of Superiors and Company Performance”

BBA (Hons), Management and International Business, Universiti Kebangsaan Malaysia

ACADEMIC APPOINTMENT & WORK EXPERIENCE

2021 – present	Associate Professor (Universiti Sains Malaysia)
2007 – 2021	Senior Lecturer (Universiti Sains Malaysia)
2001 – 2006	University Lecturer (Universiti Sains Malaysia)
1998 – 2000	College Lecturer, Head of Business and Computing Department
1996 – 1998	Business Executive
1994 – 1995	Stockbroking Trading and Market Research Officer

TEACHING AND RESEARCH

1. **Teaching Expertise:** Project Finance, Project Management, Construction Technology Management (Green Building Technology, Industrialized Building System, IBS and Building Information Modeling, BIM) and Fire Disaster Management.
2. **Research Expertise:** Building Technology Management, Decision Governance, Disaster Management, Behavioural Economics, Qualitative Research, Sustainability Management, Construction Management and Engineering Education.
3. **Administrative Expertise:** Outcome-based Education Systems and Implementation.

TEACHING & INDUSTRIAL EXPERIENCE

1. The Engineer in Society (Project Finance) 2014 – present
2. Fire Disaster Management – MSc Program – Fire Engineering (Theory and Practice of Disaster Management and Fire Disaster Risk Management) 2020 - present
3. Construction Technology (Industrialised Building System and Green Building Technology), 2014 – present
4. Project Management (Communication, Cost and Time Management), 2017 – present
5. Disaster Management (Disaster Risk Management Cycle), 2015 - present
6. Engineering Management – MSc Program (Action-based Research and Change Management), 2015 – present
7. Final Year Project (Questionnaire Design and Effective Presentation), 2016 - present
8. Engineering Management (Innovation and Creativity), 2001 – 2017
9. Management Accounting & Industrial Marketing, 2001 – 2009
10. Management Studies, Industrial Studies, Management for Engineers, Communication and Organizations, Strategic Marketing Management & Introduction to Law and Economics, ACCA and ICSA programmes, 1998 – 2000
11. Trading and Research of Stock Broking/Market Trading, Information Technology Business Consultation & Marketing and Management Consultancy, 1994 – 2000

RESEARCH AWARD/TEACHING RECOGNITION

1. Teaching Recognition - Representative of Universiti Sains Malaysia (Engineering Category) Anugerah Pengajaran – Anugerah Akademik Negara, July 2019
2. The Australian Institute of Building (AIB) Chapter President’s Research Award, 2015
3. The Chartered Institute of Building Australasia (CIOBA) Excellent Building Research Postgraduate Award, 2015
4. Postgraduate Research Award in Building, Faculty of Engineering and Built Environment, University of Newcastle, Australia, 2011

RESEARCH PROJECT/GRANT (PRINCIPAL INVESTIGATOR)

1. “Adoption of Building Information Modelling (BIM) in the Disaster Risk Management of Building Collapse due to Landslide” Ministry of Higher Education Malaysia, Long-term Research Grant Scheme (LRGS) – MRUN: Intelligent Green Energy Landslide Real- Time Alerting System in the Tropics, (Leader of Sub-Project), 1/9/2019 – 1/9/2022
2. “Development of Geographical-Based Community Resilience Index (CRI) for Sustainable Coastal Development in Northern Region of Malaysia”, USM RUI Grant, 2018-2020
3. “Development of Outcome-Based Education (OBE) Adoption Indicator for Academic Quality Assurance in University Sains Malaysia (USM), USM Academic Grant, 2019-2021
4. “Synthesis and Characterization of Disaster-associated Vulnerability and Risk Governance for Sustainable Infrastructure in Malaysia Coastal Regions”, Ministry of Higher Education Malaysia, 1/8/2016-31/7/2019
5. “Disaster Resilience Education Capacity Building in South-East Asia”, Australia ASEAN Council with the University of Newcastle and USM 2016
6. “The Development of Mechanism to Improve Awareness of Intellectual Property in Engineering” , USM Short-Term Research Grant, 2004-2006

CONSULTANCY WORK - CONTRACT RESEARCH

1. A Preliminary Study and Benchmarking to Determine the Need for Sustainable Infrastructure Rating System in The Malaysian Construction Industry, Client: CIDB Malaysia, 1/3/2016 – 18/4/2016 (Member)
2. Kajian Kemungkinan Pembangunan Kawasan Persempadanan Sabah dan Kalimantan Timur (Pos Lintas Batas Darat [PLBD] Serudong, Sabah dan Simanggaris, KALTIM), Client: Majlis Keselamatan Negara, 1/9/2009- 2/1/2010 (Member)
3. Report on Industrilized Building System (IBS) in Malaysia, Client: CIDB Malaysia, 2008 (Member)

COMMUNITY ENGAGEMENT

1. Volunteer & Facilitator - English Development Programme, Community, SK Wawasan, Pekan Baru, Parit Buntar, Perak. 01/01/2018 - 20/11/2018
2. Team Member and Mentor, Program Nadi Ilmu Amalan Membaca (NILAM), SK Wawasan Pekan Baru, Parit Buntar, Perak. 1/4/2017 – 30/4/2018
3. Knowledge Transfer programme: Pertubuhan Kebajikan Nur Kasih, Taping, Perak – Sustainable Living Education., USM & Water Watch Penang, 1/8/2014- 31/12/2014

SCHOOL-UNIVERSITY COMMITTEE

1. Final Year Project Committee – Civil Engineering School (Member) 2019 – present
2. Post Graduate Studies and Research Committee, PPKA (Member), 2016-present
3. Outcome-based Education Committee, PPKA (Member), 2016-present
4. Students' Academic Quality Committee, PPKA (Member), 2016-present
5. Coordinator: Teaching and Learning Training Committee, 03/06/2019 – 03/06/2020 (University)
6. Fee Committee – MSc Fire Safety Engineering Program, 2018-2019
7. Regional Sejahtera Education for Sustainable Development Network (RSEN), Universiti Sains Malaysia, 2018 -2019
8. Questionnaire Development Sub-Committee, PPKA (Chairman), 2016
9. Interview Panel: New Student Admission Session 2016/2017
10. Interview Panel: Exit Interview for Final Year Student, PPKA, 2015-2016
11. PPKA Representative for ELEARN@USM, 2014-2016
12. Hal Ehwal Wanita (HELWA) Pusat Islam, Kampus Kejuruteraan, USM (Member), 2015-2016.

UNIVERSITY-INDUSTRY COMMITTEE

1. Project Leader/Coordinator, PROTON X70 Intelligence That Inspires Challenge: Competition, Industry, 02/04/2019-24/07/2019 (National)
2. Youth Empowerment for Sustainable Consumption, WWF Malaysia and Pusat Kepakaran Serantau (RCE) USM, Project Coordinator, 2016
3. World Wildlife Federations (WWF) National Education for Sustainable Development Work Group. Committee Member, 2016
4. USM – Majlis Amanah Rakyat (MARA) Entrepreneurship Development Program – Facilitator, 2003 – 2009
5. Multimedia Super Corridor – Institute of Higher Learning Business Plan Competition USM-Malaysian Multimedia Development Corporation, Mentor & Judge, 2004 – 2009
6. Young Enterprise Program, DELL - American Malaysian Chamber of Commerce, Advisor, 2005-2007

ACADEMIC ASSESSOR/EXAMINER

1. PhD: The Negotiation Process Model for Private Partnerships of Highway Project in Malaysia at Pre-Contract Award Stage, 2020 (Internal Examiner)
2. PhD: Hedonic Pricing Model For Real Property Valuation in Jordan using GIS, 2020 (Internal Examiner)
3. PhD: An Effective Contingency Plan Framework for Managing Risks During Operation and Maintenance of Highway Tunneling Projects in Malaysia, 2019 (Internal Examiner).
4. PhD: Developing A Framework for Assessing and Managing Sustainable Non-Residential Building in Jordan, 2019 (Internal Examiner)
5. PhD: Development of Prefabricated Building Implementation Framework for Addressing Housing Needs in Libya, 2018 (Internal Examiner)
6. PhD: The Acceptability of Road Pricing Policy in Penang, 2018 (Internal Examiner)
7. PhD: Project Management Success for Post-Disaster Reconstruction (PDR) Projects from the International Non-Governmental Organisation (INGOs) Perspectives, Universiti Sains Malaysia, 2016 (Internal Examiner)
8. MSc: Determination of Green Technology Practices Receptive to Stakeholders in The Property Development of Malaysia, 2017 (Internal Examiner)

EDITORIAL AND REVIEWS

1. Journal of Asian Architecture and Building Engineering, Taylor & Francis, 2021 (Reviewer)
2. Malaysian Construction Research Journal – Special Issue, CREAM Malaysia, 2021 (Reviewer)
3. International Journal of Technology, Faculty of Engineering, Universitas Indonesia, 2021 (Reviewer)
4. Journal of Science and Technology, Universiti Pertanian Malaysia, 2021 (Reviewer)
5. Malaysian Construction Research Journal – CREAM Malaysia, 2020 (Reviewer)
6. Bentham Science Publishers, UAE, 2020 (Chapter in Book Reviewer)
7. International Journal of Technology, 2019 (Reviewer)
8. International Journal of Environmental Engineering, 2019 (Reviewer)
9. Journal of Science and Technology, 2019 (Reviewer)
10. International Journal of Environmental Engineering, 2019 (Reviewer)
11. International Journal of Technology, Universiti Indonesia, 2018 (Reviewer)
12. Journal of Science and Technology, Universiti Putra Malaysia, 2018 (Reviewer)
13. International Journal of Integrated Engineering, Universiti Tun Hussein Onn Malaysia, 2018 (Reviewer)
14. Malaysian Construction Research Journal – Special Issue, CREAM Malaysia, 2017 (Reviewer)
15. Jurnal Teknologi – Special Issue, Universiti Teknologi Malaysia, 2017 (Reviewer)
16. Galeri Warisan Kejuruteraan – Jurnal, Razi Publishing, 2016 (Reviewer)
17. International Conference on Advanced Science, Engineering And Technology, Universiti Teknologi Mara, 2016 (Reviewer)
18. International Conference on Sustainable Construction and Structures, Universiti Tun Hussien Onn Malaysia, 2016 (Reviewer)
19. eco-AICCE'15 International Conference, Trans Tech Publications Ltd, www.scientific.net , 6/2/2015- 30/9/2015, (Editor)
20. International Conference of Global Network for Innovative Technology, Universiti Teknologi Mara, 2015 (Reviewer)

MEMBERSHIP

International Society for Development and Sustainability [ISDS] (Associate Member)
Global Research and Development (Ordinary Member)
Construction Innovation and Technology Application Centre, Hong Kong (Ordinary Member)
World Economics Association (Ordinary Member)
Society of Engineering Education Malaysia (SEEM) 2014 -2016

SPECIAL SOFTWARE TRAINING

QRS-NVivo Training Session (Qualitative Analysis Software), Huxley Library, University of Newcastle, Australia, August 2012.

POST-GRADUATE SUPERVISION:

Doctor of Philosophy:

1. PhD Title: Effects of Leadership Style on Construction Project Success (Main Supervisor – On-going)
2. PhD Title: Framework For Effective Information Integration in Building Information Modelling BIM in Construction Industries (Main Supervisor – On-going)
3. PhD Title: Critical Selection Criteria Of Contractors and Subcontractor and Their Impacts On Construction Projects Performance - A Comparative Study (Main Supervisor – On-going)
4. PhD Title: Disaster-associated Vulnerability and Risk Governance for Sustainable Infrastructure in Malaysia Coastal Regions (Main Supervisor – On-going)
5. PhD Title: Readiness of Malaysian Construction Related Companies for the Implementation of Building Information Modeling (BIM) (Main Supervisor – Graduated, 2020)
6. PhD: Wind Risk Disaster Mitigation Focusing on Rural Roofing System in Northern Peninsular Malaysia (Co-supervisor – Graduated, 2019)

Masters of Science (Research)

1. MSc Title: Project Management of Sustainable Green Buildings in eveloping Countries: Challenges, Benefits and Solutions (Main Supervisor – On-going)
2. MSc Title: Building Information Modelling (BIM) in the Disaster Risk Management of Building Collapse due to Landslide (Main Supervisor – On-going)
3. MSc Title: Measurement of Community Resilience for Disaster Readiness in Sustainable Coastal Development in Malaysia (Main Supervisor – On-going)

BOOK PUBLICATION:

1. Sharifah Akmam Syed Zakaria and Hardiman, (2006) Rancangan Perniagaan, PTS Professional Publishing Sdn. Bhd., Kuala Lumpur, Malaysia. ISBN: 983-3585-20-5 (*Business Plan*)
2. Sharifah Akmam Syed Zakaria, (2005) Panduan dan Strategi Motivasi Diri, Utusan Publications, Kuala Lumpur, Malaysia. ISBN 967-61-1648-3 (*Strategy and Guide for Self-Motivation*)
3. Sharifah Akmam Syed Zakaria, (2004) Asas Pengurusan Pemasaran Industri, Pearson Prentice-Hall, Kuala Lumpur, Malaysia, ISBN 983-3205-09-7 (*Basics of Industrial Marketing Management*)

BOOK CHAPTER PUBLICATION:

1. Zakaria, S. A. S., Azimi, M. A., & Majid, T. A. (2019). Underlying Disaster Risk Factors for Sustainable Coastal Development Projects in Malaysia, F. Mohamed Nazri (ed.), Proceedings of AICCE'19, Lecture Notes in Civil Engineering 53, https://doi.org/10.1007/978-3-030-32816-0_22
2. Zakaria, S. A. S., Azimi, M. A., Majid, T. A. and Lau Tze Liang (2019). Exploration of Training and Education for Attaining Disaster Resilience from Sustainability Perspective Among Civil Engineering Students, F. Mohamed Nazri (ed.), Proceedings of AICCE'19, Lecture Notes in Civil Engineering 53, https://doi.org/10.1007/978-3-030-32816-0_23
3. Zakaria, S. A. S., Azimi, M. A., & Majid, T. A. (2019). Understanding and Coping with the Increasing Risk of Flood Disaster in Malaysia: Stakeholders' Perspective as Decision-Makers in Pal et al. (eds.), An Interdisciplinary Approach for Disaster Resilience and Sustainability, Disaster Risk Reduction, https://doi.org/10.1007/978-981-32-9527-8_21
4. Sharifah Akmam Binti Syed Zakaria, Hamidi Bin Abdul Aziz @ Abdul Rahman, Taksiah Binti A. Majid, 2019, Higher Education: Developing Holistic Graduates, in (Students Feedback for Continuous Quality Improvements (CQI) in Outcome-based education (OBE): A Behavioral Approach), Penerbit UIAM (Universiti Islam Antarabangsa Malaysia).
5. Zakaria, S. A. S. (2018). Behavioural Economic Factors in the Decision-Making of Green Building Technology for Sustainable Infrastructure Governance in Behavioural Economics: Trends, Perspectives and Challenges, Nova Science Publishers, New York.
6. Zakaria, S. A. S., Brewer, G., & Gajendran, T. (2013). Decision-making of Industrialised Building System: A Supply Chain Perspective on the Influence of Behavioural Economic Factors, In IAENG Transactions on Engineering Technologies (pp. 767-779). Springer Netherlands.

INTERNATIONAL JOURNAL PUBLICATION:

1. Ahmad Basri, S.A., Syed Zakaria, S.A., A.Majid, T. and Yusop, Z. (2021), Exploring Awareness and Application of Disaster Risk Management Cycle (DRMC) from Stakeholder's Perspective, International Journal of Disaster Resilience in the Built Environment, <https://doi.org/10.1108/IJDRBE-09-2020-0105>
2. Akmam, S. Z. S., & Soleha, A. R. N. (2020). Buiding Information Modeling (BIM) Contribution Towards Sustainability: Awareness of Malaysian Contractors, International Journal of Property Sciences (E-ISSN: 2229-8568), 10(1), 16-25.
3. Akmam Syed Zakaria, S., & Amtered El-Abidi, K. M. (2020). Economic Effects of Migrant Labor on Industrialized Building System (IBS) Adoption in the Malaysian Construction Industry, Architectural Engineering and Design Management, 1-17. <https://doi.org/10.1080/17452007.2020.1781587>
4. El-Abidi, K. M. A., Zakaria, S. A. S., Ofori, G. and Azia, A. R. A. (2019), Using Prefabricated Building to Address Housing Needs in Libya: A Study based on Local Expert Perspectives, Arabial Journal for Science and Engineering, Vol. 44, Iss. 10, pp 8289 – 8304.
5. El-Abidi, K. M. A., Zakaria, S. A. S. and Ofori, G. (2019). Identifying and Evaluating Critical Success Factors for Industrialized Building Systems Implementation: Malaysia Study, Arabian Journal for Science and Engineering, <https://doi.org/10.1007/s1336>
6. Zakaria, S. A. S., Gajendran, T., Skitmore, M. and Brewer, G. (2017). Key Factors Influencing the Decision to Adopt Industrialised Building Systems Technology in the Malaysian Construction Industry: An Inter-project Perspective, Architectural

- Engineering and Design Management, Architectural Engineering and Design Management, DOI: 10.1080/17452007.2017.1298512
7. Zakaria, S. A. S., Gajendran, T., Rose, T. and Brewer, G. (2017). Contextual, Structural and Behavioural Factors Influencing the Adoption of Industrialised Building Systems: A Review, Architectural Engineering and Design Management, Architectural Engineering and Design Management, DOI:10.1080/17452007.2017.1291410
 8. Azimi, M. A., Zakaria, S. A. S., & Majid, T. A. (2017). Technical and Non-Technical Factors of Risk Identification for Sustainable Coastal Development in Malaysia. IPTEK Journal of Proceedings Series, 3(6).
 9. Rahim, N. S. A., & Zakaria, S. A. S. (2017). The Framework of Building Information Modeling (BIM) Implementation Stages for Malaysian Construction Industry. IPTEK Journal of Proceedings Series, 3(6).
 10. Majid, T. A., Zakaria, S. A. S., Wan Chik, F. A., Deraman, S. N. C., & Muhammad, M. K. A. (2016). Past Windstorm Occurrence Trend, Damage and Losses in Penang, Malaysia. Journal of Engineering Science and Technology, 11(3), 397-406.
 11. Zakaria, S. A. S., and Gajendran, T. (2015) A Quantitative Method for Ranking the Influence of Competitive Factors on Industrialised Building System (IBS) Decision-making, World Journal of Management Vol. 6. No. 2. September.
 12. Zakaria, S. A. S., Brewer, G. and Gajendran, T. (2012) Contextual Factors in the Decision-making of Industrialised Building System Technology, International Journal of Civil, Architectural, Structural and Construction Engineering, World Academy of Science, Engineering and Technology, 67, pp. 489-497
 13. Majid, T. A., Azman, M. N. A., Zakaria, S. A. S., Yahya, A. S., Zaini, S. S., Ahamad, M. S. S., & Hanafi, M. H. (2011). Quantitative analysis on the level of IBS acceptance in the Malaysian construction industry. Journal of Engineering Science and Technology, 6(2), 179-190.
 14. Zakaria, S. A. S. and Hardiman (2009) The Effect of Working Environment on Job Satisfaction and Dissatisfaction Among Construction Professionals, International Journal of Science Engineering and Technology Vol. 3, No. 1, pp 37-44.

NATIONAL JOURNAL PUBLICATION:

1. Zakaria, S.A.S., Majid, T.A. and Nazri, F. M. (2017) Adoption of Industrialised Building System (IBS): Exploring Competitive Advantages from a Technology Valuation Perspective in Northern Malaysia, Malaysian Construction Research Journal , Vol. 21 No. 2
2. Majid, T.A., Azman, M.N.A., Zakaria, S.A.S., Zaini, S.S., Yahya, A.S., Ahamad, M.S.S. and Hanafi, M.H. (2011) Quantitative Analysis on the Level of IBS Acceptance in the Malaysian Construction Industry, Journal of Engineering Science and Technology. 01/2011; 6(2):179-190
3. Sharifah Akmam Syed Zakaria & Ahmad Shukri Yahaya, Tinjauan Tentang Reaksi Emosi Di Tempat Kerja: Satu Aspek Pengurusan Sumber Manusia, Jurnal Teknologi Siri E, Keluaran No. 44, Jun 2006, Penerbit Universiti Teknologi Malaysia

INTERNATIONAL PROCEEDING PUBLICATION:

1. Chik, F. W., Majid, T. A., & Zakaria, S. A. S. (2019, February). Expert Awareness of Wind Disaster Risk Reduction in Northern Peninsular Malaysia. In IOP Conference Series: Earth and Environmental Science (Vol. 244, No. 1, p. 012018). IOP Publishing.
2. Sharifah Akmam Syed Zakaria, Nurul Hana Mokhtar Kamal, Taksiah A. Majid (2018) Questionnaire Survey System (QSS) of Outcome-based Education (OBE) for

- Continuous Quality Improvement (CQI) in Engineering Education, Proceeding of 6th Global Higher Education Forum, 8-10 October 2018, Le Meridien Hotel, Putrajaya, Malaysia.
3. Sharifah Akmam Syed Zakaria, Ahmad Farhan Mohd Sadullah, Taksiah A. Majid, Farid Ezanee Mohamed Ghazali (2016) Identification of Patent in Incentivizing Innovation for Sustainability in the Construction Industry, The 3rd International Conference of Global Network for Innovative Technology (IGNITE-2016), February, Penang, Malaysia
 4. Zakaria, S. A. S., Brewer, G. and Gajendran, T. (2013) The Influence of Competitive Factors on Industrialised Building System (IBS) Decision-making: Construction Stakeholders' Perspective, 23rd International Business Research Conference 18 - 20 November, Marriott Hotel, Melbourne, Australia
 5. Zakaria, S. A. S., Brewer, G. and Gajendran, T. (2012) Behavioural Economics Perspective in Exploring the Decision-making of Industrialised Building Systems in Malaysia, The 2012 International Manufacturing, Engineering and Engineering Management, World Engineering Congress, 4-6 July, London, U.K.
 6. Zakaria, S. A. S., Brewer, G. and Gajendran, T. (2011) Understanding Decision-making: A Model for Industrialised Building System Adoption in the Malaysian Construction Industry, 15th International Business Research Conference, 21-23 November 2011, Mercure Hotel, Sydney, Australia
 7. Zakaria, S. A. S., Brewer, G. and Gajendran, T. (2011) Psychology in the Decision-making of Industrialised Building Systems (IBS): A Field of Application, The International Academic Forum of Asian Conference on Psychology & the Behavioral Sciences, March 20-22, 2011, Ramada Osaka Hotel, Osaka, Japan
 8. Zakaria, S. A. S., Brewer, G. and Gajendran, T. (2010) Conceptual Framework of Psychology Decision-making on Industrialised Building Systems (IBS) Technology, 2010 International Conference on Engineering, Project, and Production Management (EPPM 2010). Proceedings of EPPM 2010: International Conference on Engineering, Project, and Production Management, 14-15 October, 2010, Taiwan, p. 61-70
 9. Majid, T.A., Azman, M.N.A., Zakaria, S.A.S., Zaini, S.S., Yahya, A.S., Ahamad, M.S.S. and Hanafi, M.H. (2010). The Industrialised Building System (IBS) Survey Report 2008 – Educating the Malaysian Construction Industry, 2010. The International Conference on Applied Physics and Mathematics, (ICAPM 2010)
 10. Zakaria, S. A. S. and Hardiman, (2009) Technology-Based Entrepreneurship in Engineering Education: A Comparison of Technopreneurship Skills and Interest between Engineering Student and Non-Engineering Students, International Conference on Innovation in Teaching and Management of Higher Education, Shah Alam, Malaysia, 5-7 December 2009
 11. Zakaria, S. A. S. and Hardiman, (2009) Rubrics Revolution for Scoring Performance Tasks: The Assessment Trend of Outcome-Based Education System for the Engineer in Society Course, International Conference on Innovation in Teaching and Management of Higher Education, Shah Alam, Malaysia, 5-7 December 2009
 12. Zakaria, S. A. S. and Hardiman, (2009) Cost Estimation for Sustainable Road Management: A Comparison between Various Types of Asphalt Pavement Maintenance Works, 1st International Seminar on Sustainable Infrastructure and Built Environment in Developing Countries, Bandung, Indonesia, 2 – 3 November 2009
 13. Zakaria, S. A. S. and Hardiman, (2009) Inspection of Defect Types during Construction Phase towards Sustainable Construction and Quality Management: A Case of a Government Hospital, 1st International Seminar on Sustainable Infrastructure and Built Environment in Developing Countries, Bandung, Indonesia, 2 – 3 November 2009
 14. Zakaria, S. A. S. and Hardiman, (2009) The Outcome-based Education Approach of the Engineer in Society Course: An Evaluation from Student Perspective, International

- Conference on Educational Research and Practice (ICERP), Putrajaya, Malaysia, 10 – 11 June 2009
15. Zakaria, S. A. S. and Hardiman, (2009) Evaluation of Construction Firms Performance Based on the Visions of Contractors on Environmental Concern, THE Second International Conference on Green Technology and Engineering (ICGTE), Indonesia, 15 – 17 April 2009
 16. Zakaria, S. A. S. and Hardiman, (2009) The Effect of Working Environment on Job Satisfaction and Dissatisfaction among Construction Professionals, The Second International Conference on Green Technology and Engineering (ICGTE), Indonesia, 15 – 17 April 2009
 17. Zakaria, S. A. S. and Hardiman, (2009) Maintenance Strategy: A Case Study in the Defect Types and Maintenance System of Hostel Buildings, 1st International Conference on Rehabilitation and Maintenance in Civil Engineering (ICRMCE), Solo, Indonesia, 21-22 March 2009
 18. Zakaria, S. A. S. and Hardiman, (2009) Highway Maintenance: A Case Study in The Defect Types and Maintenance Management of Asphalt Pavement, 1st International Conference on Rehabilitation and Maintenance in Civil Engineering (ICRMCE), Solo, Indonesia, 21-22 March 2009
 19. Zakaria, S. A. S., Taksiah A. Majid and Sharuddin Shah Zaini, (2009) An Evaluation on Rubrics Application in the Assessment of Final Year Project Presentation in Civil Engineering Education based on Outcome-based Education (OBE), Persidangan Kebangsaan Keempat Kejuruteraan Awam, Kuala Lumpur, 27 – 29 October 2009
 20. Zakaria, S. A. S. and Hardiman, (2008) Intrapreneurship Aspect as A New Challenge in Engineering Education – Interest and Awareness, Diponegoro University, Semarang, Indonesia, Proceedings of International Conference on Continuing Engineering and Technical Education, Novotel Hotel, Semarang, Indonesia
 21. Zakaria, S. A. S. and Hardiman, (2008) Entrepreneurship Course: An Outcome-based Education Approach from the Perspective of Engineering Education, Diponegoro University, Semarang, Indonesia, Proceedings of International Conference on Continuing Engineering and Technical Education, Novotel Hotel, Semarang, Indonesia
 22. Zakaria, S. A. S. and Hardiman, (2008) Value Management in Construction: Is Our Industry Aware? Universiti Teknologi MARA, Pulau Pinang, Malaysia, Proceedings of 2nd International Conference on Science and Technology 2008, Universiti Teknologi MARA, Pulau Pinang
 23. Zakaria, S. A. S. and Hardiman, (2007) The Application of Value Management in Construction Industry – A Case Study on The Cost Effectiveness of Portal Frame Structures in Factory Projects, International Conference of European Asian Civil Engineering Forum, DAAD and Pelita Harapan University, Indonesia
 24. Zakaria, S. A. S. and Ahmad Shukri Yahaya, (2004) The Study of Emotional Intelligence in the Environment of Students Pursuing Engineering Courses, Proceedings The Association of Southeast Asian Institutions of Higher Learning (ASAHL) International Conference, Kota Kinabalu, Sabah, Malaysia

NATIONAL PROCEEDING PUBLICATION:

1. Zakaria, Sharifah Akmam Syed and Azimi, Mohd Azrulfitri and Majid, Taksiah A. (2017) Exploring the Issues of Information and Communication Technology (ICT) Application in Disaster Risk Management: A Case Study of 2014 Major Flood Event in Kelantan. In: Social Sciences Postgraduate International Seminar (SSPIS) 2017. School of Social Sciences, USM, Pulau Pinang, Malaysia, pp. 796-804. ISBN 9789671544013
2. Zakaria, S. A. S., Azimi, M. A., & Majid, T. A. (2018). Mainstreaming Community Resilience in Malaysia via the Adaptation of Sustainable Development Goals (SDGs),

Proceeding of ASEAN Post Graduate Conference, 15 November 2018, Universiti Malaya, Kuala Lumpur, Malaysia.

3. Zakaria, Sharifah Akmam Syed and Rahim, Nur Soleha Abdul (2017) Developing a Technology Implementation Framework from the Perspective of Sustainability. In: Social Sciences Postgraduate International Seminar (SSPIS) 2017. School of Social Sciences, USM, Pulau Pinang, Malaysia, pp. 632-638. ISBN 9789671544013
4. Zakaria, S. A. S. and Hardiman, (2009) The Application of Primavera Software in Project Management: A Comparative Study Between Highway and Building Construction Projects, 8th Annual Conference and Meeting Management in Construction Researchers Association (MICRA), Penang, Malaysia, 9 – 10 June 2009
5. Zakaria, S. A. S. and Hardiman, (2009) Workers Perspectives' on the Implementation of Construction Works Based on Contract Documents, 8th Annual Conference and Meeting Management in Construction Researchers Association (MICRA), Penang, Malaysia, 9 – 10 June 2009
6. Zakaria, S. A. S. and Hardiman, (2008) 'The Application of Quality Control in Construction Industry – A Case Study on Customer Satisfaction in Housing Projects', International Islamic University Malaysia., Proceedings of 7th Annual Conference in Construction Researchers' Association MICRA, International Islamic University Malaysia
7. Zakaria, S. A. S. and Hardiman, (2007) Civil Engineers in Society: An Outcome-Based Education Approach from the Perspective of Management Courses, National Civil Engineering Conference, June 2007, Langkawi, Malaysia
8. Zakaria, S. A. S. and Hardiman, (2007) Cost Management in Construction: The Study of Cost-Effectiveness in the Construction of Terrace House by Using Concrete Masonry Wall, National Civil Engineering Conference, June 2007, Langkawi, Malaysia
9. Zakaria, S. A. S. and Ahmad Shukri Yahaya, (2004) A Review and Strategy for Improvement of the Engineer in Society Course in Engineering Curriculum by Promoting Thinking and Inquiry of Scenarios in Problem-Based Learning, Proceedings of National Conference on Engineering Education, December 2004, Kuala Lumpur
10. Zakaria, S. A. S. and Ahmad Shukri Yahaya, (2004) Intellectual Property Rights and Its Awareness in The Field of Civil Engineering: A Case for Software Piracy and Copyright Protection, Persidangan Kebangsaan Kejuruteraan Awam, July 2004, Penang, Malaysia
11. Zakaria, S. A. S. and Ahmad Shukri Yahaya, (2004) Kecerdasan Emosi Dalam Bidang Pendidikan Teknikal: Ke arah Pemikiran Strategik, Wacana Pemikiran Dalam Pendidikan, Fakulti Pendidikan, Universiti Kebangsaan Malaysia

SUPERVISION OF FINAL YEAR PROJECT:

1. 2020. Challenges and Benefits of the Fourth Industrial Revolution (IR4.0) in the Construction Industry from Productivity Perspectives. Main Supervisor
2. 2018, Green Building Technology Implementation from Sustainability Perspectives, Main Supervisor
3. 2018, Qlassic as a Tool of Assessing IBS Projects., Main Supervisor
4. 2018, Challenges and Benefits of Implementing Green Building Technology in Building Construction Projects, Main Supervisor
5. 2017, IBS Assessment for Disaster Resilience in Construction Projects., Main Supervisor
6. 2017, Adoption of IBS in the Reconstruction of Construction Projects, Main Supervisor
7. 2016, Productivity and Quality in IBS Implementation for Sustainability, Main Supervisor

8. 2016, Technical and Non-Technical Factors of Disaster Risk Management System, Main Supervisor
9. 2015, Industrialized Building System as a Green Technology for Sustainable at Construction Site, Main Supervisor
10. 2015, Factors Influencing Industrialized Building System (IBS) Adoption in Highway Bridge Project in Sustainable Infrastructure Development., Main Supervisor
11. 2015, Exploring Perceptions Towards Building Information Modeling (BIM) Implementation in Ibs Project for Sustainable Infrastructure., Main Supervisor
12. 2015, Building Information Modelling Application in Disaster Risk Management, Main Supervisor
13. 2014, Factors Influencing The Decision-making of Industrialised Building System (IBS) :A Case Study of Building Projects., Main Supervisor
14. 2009, Strategic Thinkers and Project Success Among Construction Industry Players – A Case Study on Information Technology in Civil Engineering, Main Supervisor
15. 2009, Entrepreneurial Characteristics and Business Success – A Case Study in Construction Industry, Main Supervisor
16. 2009, Perception of Construction Players Towards The Impact of Oil Price Movement on Malaysian Construction Industry, Main Supervisor
17. 2009, Perception of Construction Industry Players Towards The Current and Future Impacts of Globalization on Construction Industry, Main Supervisor
18. 2008, A Study On The Effectiveness of Industrialized Building System In Construction Industry, Main Supervisor
19. 2008, The Role and Contribution of Contractors in Construction Industry, Main Supervisor
20. 2008, Kajian Kes Kerosakan Bangunan Desasiswa dan Sistem Pengurusan Penyelenggaraan Kampus Kejuruteraan dan Kampus Kesihatan, Main Supervisor
21. 2008, Masalah Kebocoran Pada Struktur Bangunan – Kajian Kes Kampus Kejuruteraan dan Kampus Kesihatan USM, Main Supervisor
22. 2007, Pelaksanaan Pemeriksaan Terakhir dan Ujikaji (Tetulang dan Konkrit) Berdasarkan ISO 9001 (Kajian Kes: Perbandingan Pembinaan Jambatan dan Bangunan), Main Supervisor
23. 2007, Penyelenggaraan Jalan : Kos Kerosakan dan Pembaikan, Main Supervisor
24. 2007, Customer Satisfaction and Quality Management System in Construction Activities, Main Supervisor
25. 2006, The Application of Value Management In Malaysian Construction Industry – A Case Study On The Cost Effectiveness of Portal Frame Structure In Factory Projects, Main Supervisor
26. 2006, Kelewatan Projek Pembinaan – Faktor, Kesan dan Cara Mengatasi, Main Supervisor
27. 2006, Pengurusan Program Kitar Semula Bagi Kawasan Daerah Kerian dan Seberang Perai Selatan, Main Supervisor
28. 2006, Tinjauan Pengoperasian Tempat Letak Kereta Dalam Kampus Kejuruteraan Universiti Sains Malaysia, Main Supervisor
29. 2006, Pengurusan Sisa Pepejal Dari Perspektif Kos dan Sumber Manusia, Main Supervisor
30. 2005, Cost Effectiveness In The Construction of Terrace Houses By Using Raft Foundation and Concrete Mansory Unit, Main Supervisor
31. 2005, Quality of Scheduling Comparison of Highway and Infrastructure Projects in Construction Actiivities, Main Supervisor
32. 2005, Non-destructive Testing In The Quality Assurance of Building Construction, Main Supervisor
33. 2005, Safety Research on Workers At Construction Site, Main Supervisor

34. 2004, Kajian Kes Mengenai Jenis-jenis Kerosakan dan Kecacatan Bangunsn Semasa Fasa Pembinaan – Projek Hospital Ampang, Pandan Mewah, Kuala Lumpur, Main Supervisor
35. 2004, Kelewatan Dalam Projek Pembinaan - Permasalahan dan Penyelesaian: Kajian di Projek Pembinaan Jabatan Pendidikan Negeri Pulau Pinang, Bukit Jambul, Pulau Pinang, Main Supervisor
36. 2004, Mengkaji Masalah Spesifikasi Piawai Bagi Kerja Binaan Bangunan Berdasarkan Dokumen Tender, Main Supervisor
37. 2004, Kajian Kes: Kajian Terhadap Pengurusan Penyelenggaraan dan Kecacatan Bangunan Di Universiti Sains Malaysia, Kampus Kejuruteraan, Seri Ampangan, Main Supervisor
38. 2004, Kajian Kes: Kajian Tentang Jenis-jenis Kerosakan dan Pembaikan Ke Atas Turapan Asphalt Dari Bukit Kayu Hitam Ke Changkat Jering Di Lebuhraya Utara-Selatan, Main Supervisor
39. 2004, Kajian Keselamatan dan Kesihatan Pekerjaan Di Tapak Pembinaan, Main Supervisor
40. 2004, Stormwater Management – A Case Study of Rainfall Intensity Duration Frequency Curve Data in Kerian River Basin Area, Main Supervisor
41. 2004, Project Quality Control And Planning In Building Construction, Main Supervisor

ARTICLES IN SCHOLARY MAGAZINE:

1. Sharifah Akmam, 2008, Pengurusan Nilai Dalam Teknologi, Dewan Ekonomi, Dewan Bahasa dan Pustaka Malaysia, November (*Value Management in Technology*)
2. Sharifah Akmam, 2008, Globalisasi Teknologi, Dewan Ekonomi, Dewan Bahasa dan Pustaka Malaysia, Julai (*Technology Globalisation*)
3. Sharifah Akmam, 2007, Teknologi dan Persaingan, Dewan Ekonomi, Dewan Bahasa dan Pustaka Malaysia, June (*Technology and Competition*)
4. Sharifah Akmam, 2007, Paradigma Pengurusan Teknologi, Dewan Ekonomi, Dewan Bahasa dan Pustaka Malaysia, April (*Technology Management Paradigm*)
5. Sharifah Akmam, 2006, Strategi Inovasi Sebagai Pemacu Pertumbuhan Teknologi, Dewan Ekonomi, Dewan Bahasa dan Pustaka Malaysia, March (*Innovation Strategy as Technology Development Catalyst*)
6. Sharifah Akmam, 2006, Perlesenan Teknologi Miliki Nilai Komersial Yang Tinggi, Dewan Ekonomi, Dewan Bahasa dan Pustaka Malaysia, April (*Technology Licencing with High Commercial Value*)
7. Sharifah Akmam, 2006, Kesedaran Harta Intelek Untuk Pembangunan Teknologi, Dewan Ekonomi, Dewan Bahasa dan Pustaka Malaysia, May (*Intellectual Property Awareness for Technology Development*)
8. Sharifah Akmam, 2006, Aplikasi Teknologi Penting dalam Sektor Perniagaan Masa Kini, Dewan Ekonomi, Dewan Bahasa dan Pustaka Malaysia, June (*Technology Application Importance in Recent Business Sector*)
9. Sharifah Akmam, 2006, Modal Teroka untuk Pembangunan Teknologi, Dewan Ekonomi, Dewan Bahasa dan Pustaka Malaysia, August (*Venture Capital for Technology Development*)
10. Sharifah Akmam, 2005, Penggunaan Teknologi Cabaran Terkini Buat Organisasi, Dewan Ekonomi, Dewan Bahasa dan Pustaka Malaysia, April (*Technology Use as the Latest Organisational Challenge*)
11. Sharifah Akmam, 2005, Merealisasi K-Ekonomi Melalui Kemampuan ICT, Dewan Ekonomi, Dewan Bahasa dan Pustaka Malaysia, July (*Realising K-Economy Through ICT Capability*)

12. Sharifah Akmam, 2005, Aplikasi Konsep Pemasaran Dalam Politik, Dewan Ekonomi, Dewan Bahasa dan Pustaka Malaysia, October (*Marketing Concept Application in Politics*)
13. Sharifah Akmam, 2004, Ergonomi Dalam Bidang Sains Dan Teknologi, Dewan Ekonomi, Dewan Bahasa dan Pustaka Malaysia, November (*Ergonomics in Science and Technology Area*)
14. Sharifah Akmam, 2004, Tekno-usahawan di Kalangan Jurutera, Dewan Ekonomi, Dewan Bahasa dan Pustaka Malaysia, October (*Technopreneur Among Engineers*)
15. Sharifah Akmam, 2004, Produk baru, Inovasi dan Harta Intelek, Dewan Ekonomi, Dewan Bahasa dan Pustaka Malaysia, September (*New Product, Innovation and Intellectual Property*)
16. Sharifah Akmam, 2003, Pengaruh Teknologi Dalam Bidang Komunikasi, Dewan Ekonomi, Dewan Bahasa dan Pustaka Malaysia, June (*Technology Influences in Communication Field*)
17. Sharifah Akmam, 2003, Pengurusan Kewangan Berkualiti Dalam Pelaksanaan Projek, Dewan Ekonomi, Dewan Bahasa dan Pustaka Malaysia, May (*Quality Financial Management in Project Implementation*)

ACADEMIC - INVITED SPEAKER:

1. Mobility Program Kyushu Institute of Technology (Kyutech) Japan Mobility Program: Lecture on Construction Management, Topic: *Impact of 4th Industrial Revolution on Construction Engineering*, Seminar Room 1, School of Civil Engineering, USM, 22 October 2019
2. *Earthquake Disaster Risk Planning and Management*, 2017, UiTM Merbok, Kedah
3. *Stakeholders' Participation in Disaster Management and Education*, 2017, Workshop on Disaster Resilient: Research and Education, PPK Awam, USM
4. *Disaster Resilience Education: USM*, 2016, Disaster Resilience Education Capacity Building in South East Asia Project, USM
5. *Questionnaire Design and Survey Method*, 2016 - 2020, Final Year Project, PPK Awam, USM
6. *Delivering Effective Presentation*, 2016, Final Year Project, PPK Awam, USM
7. *Implementation of Outcome-based Education (OBE)*, 2016, Quality Office, USM
8. *Developing Research Methodology and Questionnaire Development*, 2016, PPK Awam, USM
9. *Developing Questionnaire*, 2015, Internal Training Seminar, PPK Awam, USM
10. *Writing a Book and Chapter in Book*, 2015, Internal Training Seminar, PPK Awam, USM
11. Workshop on *OBE Implementation in Teaching – Experience Sharing*, Seminar Room, School of Chemical Engineering, USM, 26 June 2008.

CO-ACADEMIC - INVITED SPEAKER:

1. Technical Staffs Program: Diskusi Sentiasa Releven - Topic: *Kewangan Bestari, Hidup Lestari* (Financial Management Talk), Seminar Room 1, School of Civil Engineering, USM, 9 September 2020
2. *Innovation*, Seminar Young Engineers Education and Career, 2008/9 E-SCOSA Design Competition, PPK Elektrik & Elektronik, USM
3. *Entrepreneurship Motivation and Business Ideas*, 2007, Kursus Keusahawanan Siswa, Bahagian Hal-ehwal dan Pembangunan Pelajar USM dan Kementerian Pembangunan Usahawan dan Koperasi

4. *Communication and Self-Development*, 2007, Seminar Keusahawanan – Ekspo Kerjaya dan Pendidikan 2007, Bahagian Hal-ehwal dan Pembangunan Pelajar USM dan Kementerian Pembangunan Usahawan dan Koperasi
5. *Effective Communication*, 2007, Kursus Keusahawanan Siswa, Bahagian Hal-ehwal dan Pembangunan Pelajar USM dan Kementerian Pembangunan Usahawan dan Koperasi
6. *Effective Business Plan*, 2006, Entrepreneurship Lab (E-Lab) Seminar: Business Idea and Business Plan Competition, Multimedia Development Corporation (MEDC) & Pusat Pengetahuan Komunikasi dan Teknologi, USM
7. *The Improvement of Ideas in Exploring Entrepreneurship Field*, 2006, Bahagian Hal-ehwal dan Pembangunan Pelajar USM dan Kementerian Pembangunan Usahawan dan Koperasi
8. *Entrepreneurship Awareness*, 2006, Seminar Keusahawanan – Ekspo Kerjaya dan Pendidikan 2006, Bahagian Hal-Ehwal dan Pembangunan Pelajar, Universiti Sains Malaysia
9. *Business Communication*, 2005, Latihan Keusahawanan Siswa (LKS) Modul 5, Bahagian Hal Ehwal dan Pembangunan Pelajar USM dan Kementerian Pembangunan Usahawan dan Koperasi Malsysia
10. *Leadership, Business Motivation and Business Plan Preparation*, 2005, Latihan Keusahawanan Siswa (LKS) Modul 1 & 2, Bahagian Hal Ehwal dan Pembangunan Pelajar USM dan Kementerian Pembangunan Usahawan dan Koperasi Malaysia
11. *Towards Producing Technopreneur Graduates*, 2005, Seminar Keusahawanan Siswa USM, Bahagian Hal-ehwal dan Pembangunan Pelajar, USM
12. *Stress Handling – The Ways of Stress Management*, 2004, Bengkel Kecemerlangan Diri ke 13, Bahagian Hal-ehwal dan Pembangunan Pelajar, USM
13. *Handle Emotion, Manage Stress*, 2004, Stress Management Workshop, School of Civil Engineering, Engineering Campus, USM

SERVICE TO COMMUNITY – INVITED SPEAKER:

1. *Sharing Success Together*, 2006, Majlis Penghuni Desasiswa Jaya, Kampus Kejuruteraan, USM
2. *Pemantapan Jatidiri Pelajar*, 2006, Sek. Men. Teknik Seberang Prai, Penang & Kelab Pra Kaunselor Pelajar, Kampus Kejuruteraan, USM
3. *Membentuk Keyakinan Diri*, 2005, Sekolah Menengah Sri Nibong, Pulau Pinang & Program Mahasiswa Turun Sekolah, Bahagian Hal-ehwal dan Pembangunan Pelajar, Kampus Kejuruteraan, USM
4. *Stress*, 2005, Persatuan Wanita USM
5. *Laluan Impian*, 2005, Sek. Men Teknik Nibong Tebal & Kelab Pra Kaunselor Pelajar, Kampus Kejuruteraan, USM
6. *Persediaan Sebelum Menghadapi Dunia Luar*, 2005, Persatuan Mahasiswa Islam, Kampus Kejuruteraan, USM
7. *Fasilitator Yang Berkesan*, 2004, Kelab Pra-Kaunselor Pelajar, Engineering Campus, Universiti Sains Malaysia
8. *Mahasiswa Terlampau*, 2004, Majlis Perwakilan Pelajar, Engineering Campus, USM
9. *Penasihatan Kekeluargaan Bestari*, 2004, Pusat Islam, Kampus Kejuruteraan, Universiti Sains Malaysia
10. *Campus Life*, 2004, Majlis Penghuni Desasiswa Jaya, Kampus Kejuruteraan, USM
11. *Ke arah Pembentukan Usahawan Cemerlang*, 2004, Kursus Pembangunan Usahawan, Pejabat Pertanian Kerian, Perak
12. *Menuju Ke Menara Gading*, 2004, Bahagian Hal-ehwal dan Pembangunan Pelajar, Kampus Kejuruteraan, USM

13. *Pengurusan Diri*, 2004, Sek. Men. Sains Tun Syed Syeikh Shahabudin, Bukit Mertajam & Majlis Penghuni Desasiswa Lembaran, Kampus Kejuruteraan, USM.
14. *Motivasi Diri*, 2004, Kelab Pra-Kaunselor Pelajar, Engineering Campus, Universiti Sains Malaysia
15. *Komunikasi Untuk Fasilitator*, 2004, Kelab Pra-Kaunselor Pelajar, Engineering Campus, Universiti Sains Malaysia
16. *Cara-cara Memupuk Mentaliti Yang Baik, Kuat dan Sihat Sebagai Seorang Mahasiswa Cemerlang*, 2003, Civil-Moment of Friendship Camp & School of Civil Engineering, Engineering Campus, Universiti Sains Malaysia
17. *Persediaan Diri Untuk Menghadapi Peperiksaan*, 2003, Bahagian Hal-Ehwal dan Pembangunan Pelajar, Kampus Kejuruteraan, USM
18. *Mentaliti Pelajar*, 2003, Engineering Volunteer Project- Bahagian Hal-Ehwal dan Pembangunan Pelajar, Kampus Kejuruteraan, USM
19. *Mahasiswa Alaf Baru: Nilai Murni dan Hala Tuju*, 2003, Minggu Aluan Lembaran, Desasiswa Lembaran, Engineering Campus, USM
20. *Melentur Buluh Biar Dari Rebungnya*, 2003, Bahagian Hal-Ehwal dan Pembangunan Pelajar, Kampus Kejuruteraan, USM