

ABDUL RAZAK BIN SAPIAN



- KULLIYAH OF ARCHITECTURE AND ENVIRONMENTAL DESIGN
- IIUM Gombak Campus
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المؤهل العلمي

- Ph.D in Architecture
- Bachelor in Hons.
- Bachelor in Architecture
- Matriculation

مسؤوليات التدريس

ARCHITECTURAL DESIGN VI (STUDIO)	2006/2007
BUILDING CONSTRUCTION & MATERIALS 3	2012/2013 2013/2014 2014/2015
BUILDING CONTRACT AND CONTRACT ADMINISTRATION	2006/2007 2007/2008 2008/2009
BUILDING CONTRACT OR CONTRACT DOCUMENTATION	2005/2006 2006/2007 2007/2008
CONSTRUCTION LAW AND PRACTICE	2008/2009 2009/2010 2010/2011 2011/2012
DESIGN THESIS	2003/2004 2004/2005
DESIGN THESIS 1	2009/2010 2010/2011 2011/2012
DESIGN THESIS 2	2008/2009 2009/2010 2010/2011 2011/2012
DESIGN WORKSHOP	2018/2019
ENVIRONMENTAL CONSCIOUS DESIGN	2003/2004 2006/2007 2007/2008 2010/2011 2012/2013 2013/2014 2014/2015 2016/2017
HERITAGE STUDIES	2006/2007 2009/2010 2010/2011
INTEGRATED/MULTI-DISCIPLINARY PROJECT 1	2003/2004
LAW AND CONTRACT IN CONSTRUCTION	2017/2018
PRE-DESIGN THESIS	2004/2005
PROFESSIONAL OFFICE PRACTICE & MANAGEMENT	2005/2006
PROFESSIONAL PRACTICE & MANAGEMENT 2	2012/2013 2013/2014 2014/2015 2015/2016

PROFESSIONAL PRACTICE AND OFFICE MANAGEMENT	2006/2007 2007/2008 2008/2009
RESEARCH METHODOLOGY IN ARCHITECTURE	2016/2017 2017/2018 2018/2019 2019/2020 2020/2021
RESEARCH METHODS FOR THE BUILT ENVIRONMENT	2011/2012
RESEARCH METHODS IN ARCHITECTURE	2013/2014

المشاريع البحثية

In Progress

2019 - Present	A Novel Method in Nurturing Students? Motivation and Resilience Through a Validated Embedded Multi-Dimensional Student Engagement Framework (Use of Gamification) for Higher Learning Institution
2019 - Present	Perunding bidang Rekabentuk Bandar bagi Pelan Pengurusan Pembangunan Persisir Pantai Pekan Kua-Klebang, Langkawi Kedah
2019 - Present	Air Flow Characteristics and Behaviour Around Openings with Various Types of Shading Elements
2019 - Present	A Green Operation Practices Framework for Small and Medium Chalet Operators at East Peninsular Malaysia Marine Park Islands
2019 - Present	Perunding bidang Rekabentuk Bandar bagi Pelan Pengurusan Pembangunan Persisir Pantai Pekan Kua-Klebang, Langkawi Kedah
2019 - Present	Smart Interior Design (SID) Framework as an Integrated Energy Efficiency Approach for Smart Building and IoT-Driven Future.
2019 - Present	Seamless contracting and contractual provisions framework to reinforce BIM collaborative and integrative environment in the Malaysian construction industry
2018 - Present	Kajian Garis Panduan Pembangunan STRATUM dan Kajian Kes
2018 - Present	Kajian dan Pembangunan Standard Industri Pembinaan Perumahan Kebangsaan
2016 - Present	Enhancing the Green Building Index (GBI) Malaysia with Biomimicry Life's Principles (BLP) in Alleviating the Urban Heat Island (UHI) Effect for the Built Environment
2013 - Present	Regenerative Islamic Heritage Research Unit(RIHRU)
2013 - Present	ISLAMIC ARCHITECTURAL HERITAGE RESEARCH UNIT(ISArch)

2012 - Present	IIUM Master Plan (Planning Soft and Hard Scape)
Unknown - Present	Assessment of Digitization and Digital Archiving of Islamic Applied Arts and Design Artworks using Available Digital Technologies, Cloud Storage and Cloud Computing
Completed	
2018 - 2018	Kajian dan Pembangunan Standard Industri Pembinaan Perumahan Kebangsaan
2015 - 2018	Identifying the Minimum Invasive Active Fire Protection Measures for Malaysian Heritage Buildings Towards Better Preservation of the Built Heritage
2014 - 2018	Development of Cost Modelling Prediction Tool for Green Home
2013 - 2017	Development of Ecological Indicators for Islamic Eco-Campus Environment
2013 - 2016	The Provision of Research Consultancy for Bako Master Plan Study
2013 - 2015	The Provision of Research Consultancy for Bako Master Plan Study
2013 - 2016	Empirical Evaluation of Aesthetics Preferences and Environmental Performance of Sun Shading Devices Using Carving of Malay Traditional Houses
2010 - 2012	CFD Investigations on the Potential of Solar Induced Ventilation in Enhancing the Stack Ventilation Performance for Hot and Humid Climate.
2010 - 2012	CFD Investigations on the Potential of Solar Induced Ventilation in Enhancing the Stack Ventilation Performance for Hot and Humid Climate.
2007 - 2011	Crime Prevention Through Housing Design and Planning: A Study on Terrace Housing Areas in Kuala Lumpur and Selangor
2007 - 2011	Emulating the Practice of "Buying Off the Plan" in the Housing Industry in Australia: A Feasibility Study for Malaysia
2004 - 2010	The Effect of Wider Frontage of The Terrace House (TH) to Natural Ventilation

المنشورات

Article

- 2020** [Baitul Rahmah: a final evolution of the Malay classical style amidst change.](#) Cultural syndrome , 2 (1) pp.78-99
- 2020** [Women in Construction Boots: The Enabling Factors from the Perspective of Female Adolescents.](#) International Journal of Psychosocial Rehabilitation , 24 pp.1-8
- 2019** [Natural ventilation for energy efficient office buildings: a comparative analysis on three buildings in Kuala Lumpur.](#) International Journal of Integrated Engineering , 11 (4) pp.252-259

- 2019** [Reviewing and identifying the green criteria in relation to the building cost: project management.](#) Journal of Advanced Research in Engineering Knowledge , 6 (1) pp.30-34
- 2019** [A review of sustainable design in the automotive industry.](#) Journal of Architecture, Planning and Construction Management , 9 (2) pp.57-68
- 2018** [Mosque : A statement of citizenship.](#) Planning Malaysia , 16 (1) pp.96-104
- 2018** [Women as skilled labour: A review of issues, challenges and prospects.](#) International Journal of Engineering & Technology , 7 (3.25) pp.441-445
- 2017** [Translation of social citizenship to architecture & built environment: A methodological review.](#) Planning Malaysia: Journal of the Malaysian Institute of Planners , 15 (1) pp.235-244
- 2017** [Potential of voids to enhance natural ventilation in Medium Cost Multi-Storey Housing \(MCMSH\) for hot and humid climate.](#) Potential of Voids to Enhance Natural Ventilation in Medium Cost Multi-Storey Housing (MCMSH) For Hot and Humid Climate , 12 (10) pp.3137-3144
- 2017** [CFD modeling of natural ventilation in a void connected to the living units of multi-storey housing for thermal comfort.](#) Energy and Buildings , 144 (1) pp.1-16
- 2016** [The effects of void on natural ventilation performance in multi-storey housing.](#) Buildings , 6 (3) pp.1-19
- 2016** [A comparative analysis on materials and resources in green assessment tools for various countries.](#) Key Engineering Materials , 700 pp.256-265
- 2016** [Site planning and orientation for energy efficiency: a comparative analysis on three office buildings in Kuala Lumpur to determine a location for building shading device.](#) Key Engineering Materials , 700 pp.247-255
- 2015** [Application of solar-induced ventilation prototype in Small and Medium Enterprise building.](#) Indoor and Built Environment , 24 (3) pp.384-400
- 2014** [The journey of murabbis in architecture pedagogy: the case of studio teaching as laboratory of passion and duty to future khalifas of the built environment.](#) World Applied Sciences Journal (30) pp.148-166
- 2014** [Using computational fluid dynamics in the determination of solar collector orientation and stack height of a solar induced ventilation prototype.](#) Pertanika Journal of Social Science & Humanities , 22 (1) pp.273-288
- 2014** [Mass flow rate induced by combined roof solar roof collector and vertical stack in hot humid climate.](#) Journal of Green Building , 9 (1) pp.166-177
- 2013** [Thermal comfort investigation in traditional and modern urban canyons in Bandar Abbas, Iran.](#) Pertanika Journal of Social Science & Humanities , 21 (4) pp.1491-1515
- 2011** [A new concept design of a motorbike with 3D model for the Malaysian market.](#) Journal of Design Research , 9 (1) pp.16-43
- 2011** [Microclimate and thermal comfort of urban forms and canyons in traditional and modern residential fabrics in Bandar Abbas, Iran.](#) Modern Applied Science , 5 (2) pp.43-56

2010 [Enhancement of stack ventilation in hot and humid climate using a combination of roof solar collector and vertical stack.](#) Building and Environment , 45 (10) pp.2296-2308

2009 [Validation of the computational fluid dynamics \(CFD\) method for predicting wind flow around a high-rise building \(HRB\) in an urban boundary layer condition.](#) Journal of Construction in Developing Countries , 14 (2) pp.1-20

2008 [Evaluation of residential satisfaction of low-cost housing in Kano state.](#) Al-Risala (8) pp.79-94

Conference or Workshop Item

2019 [A review of sustainable design in the automotive industry.](#) In: **National landscape Architectural Seminar**

2019 [Preserving built heritage through education & research for sustainability: IIUM perspective & experiences.](#) In: **Symposium Kerajaan Tempatan Peringkat Kebangsaan 2019**

2018 [Past, current and future perspectives of housing development and policy in Malaysia.](#) In: **7th International Conference on Law And Society (ICLAS 7)**

2017 [Retrospect hospital project development from briefing to completion: Case study of IIUM Teaching Hospital experiences.](#) In: **Seminar ' Lessons Learnt' : Projek Fasilitas Kesehatan & Hospital**

2017 [Evolution of infectious disease ward design in Malaysia : Case study.](#) In: **International Union of Architects' Public Health Group (UIA-PHG) Annual Meeting**

2014 [Extracting the principles of sustainability from the architecture of colonial hospitals in Malaysia: appreciating the past wisdoms as best practices.](#) In: **XXVth International Union of Architects World Congress**

2013 [The journey of murabbis in architecture pedagogy: The case of studio teaching as laboratory of passion and duty to future khalifas of the built environment.](#) In: **International Conference on Innovation Challenges in Multidisciplinary Research & Practice (ICMRP) 2013**

2013 [Hospital design in tropical Malaysia - towards a green agenda.](#) In: **33rd UIA/PHG International Seminar on Public Healthcare Facilities**

2013 [Hospital designs in tropical Malaysia: towards a green agenda.](#) In: **UIA-PHG Annual Healthcare Forum + GUPHA Meeting at IIDEX Canada**

2012 [The shaping of an ibadah friendly hospital : learnings from the bimaristan of the evergreen past and the practicality of today's demands .](#) In: **8th World Congress and Exhibition on Design and Health 2012**

2012 [Natural ventilation around open round floors with pilotis in high-rise residential buildings in tropical areas: harmonization of modern and traditional housing in tropical areas .](#) In: **2nd International Conference on Archi-Cultural Translations through the Silk Road (iaSU2012 JAPAN)**

2012 [Development & application of solar induced ventilation prototype for Small and Medium Enterprise \(SME\) building.](#) In: **Seoul International Invention Fair 2012 (SIIF 2012), COEX, Seoul, South Korea**

- 2012 [Development of potential solar induced ventilation strategy in hot and humid climate . In: ITEX 2012](#)
- 2012 [Application of solar induced ventilation prototype in Small and Medium Enterprise \(SME\) building . In: ITEX 2012](#)
- 2012 [Reliving the traditional masjid architecture in contemporary world : the case of Masjid Al Falah - KAED Community Project. In: IRIIE 2012](#)
- 2012 [Natural ventilation around open ground floor or pilotis of high rise residential building: harmonization of modern with traditional housing in tropical areas. In: Archi-Cultural Translations through the Silk Road 2nd International Conference](#)
- 2012 [An evaluation of government low cost housing layout plans and facilities in Kuala Lumpur . In: International Conference on Innovation and Technology for Sustainable Built Environment \(ICITSBE 2012\)](#)
- 2010 [Configuring the nature of colonial hospital architecture in peninsular Malaysia- serie 1- Special studies on the tuberculosis ward and hospital administration building typologies of Kota Bharu Hospital. In: IIUM Research, Innovation & Invention Exhibition \(IRIIE 2010\)](#)
- 2009 [Property crime prevention in Malaysian housing: Issues and challenges . In: UMRAN 2009: Healing The World](#)
- 2009 [An invention of "build-then-sell" in Malaysia via the housing law. In: CIBW 107 Symposium on Construction in Developing Economies: Commonalities Among Diversities](#)
- 2008 [Evaluation of residential satisfaction of low-cost housing in Kano state. In: 7th Annual Conference Management in Construction Researchers' Associations MICRA 2008](#)
- 2007 [Effect of staggered housing layout on internal airflow of houses in Malaysia. In: 24th International Conference on Passive and Low Energy Architecture \(PLEA 2007\)](#)
- 2005 [Open space for people: an overview of open space typologies and utilization in Kuala Lumpur. In: The 6th International Seminar on Sustainable Environment and Architecture \(SENVAR\)](#)
- 2004 [The association between landscape design elements and human activities in hot humid outdoor urban spaces - case studies in Kuala Lumpur city. In: JSPS-VCC Seminar on Passive Design Considerations in Built Environment](#)
- 2003 [Air velocity behavior at courtyards in the tropical climate : case studies of courtyards at IIUM Campus. In: Seminar on Advances in Malaysia Energy Research](#)
- 2002 [Towards a sustainable environment: an analysis on courtyards microclimate in the tropical region. In: Building Research and the Sustainability of the Built Environment in the Tropics](#)
- 2000 [Air velocity behaviour at tropical urban plazas adjacent to tall buildings: a case study of Kuala Lumpur. In: Sustainable Environment Architecture \(SENVAR\)](#)

- 2013** [Istana Kuala Cegar: nostalgic splendour behind a humble facade.](#) IIUM Press . ISBN 978-967-418-272-4
- 2013** [Rumah Tok Menteri II: a continuation of generations.](#) IIUM Press . ISBN 978-967-418-255-7
- 2011** [Tracer study 2011 First Degree and Post Graduates: International Islamic University Malaysia.](#) Alumni and Career Services Division, International Islamic University Malaysia . ISBN 978-967-10826-1-4

Book Section

- 2016** [Reminiscing traditional masjid architecture in a contemporary world: The making of Masjid Al-Falah.](#) In: **Dimensions of Masjid Architecture-Perspectives and Writings in Theory and Design** Kulliyyah of Architecture and Environmental Design, IIUM . ISBN 978-983-3142-33-0 , pp.199-206
- 2016** [Reminiscing traditional masjid architecture in a contemporary world: The making of Masjid Al-Falah.](#) In: **Dimensions of Masjid Architecture-Perspectives and Writings in Theory and Design** Kulliyyah of Architecture and Environmental Design, IIUM . ISBN 978-983-3142-33-0 , pp.199-206