

# PUTERI SHIREEN BINTI JAHN KASSIM



- KULLIYAH OF ARCHITECTURE AND ENVIRONMENTAL DESIGN
- IIUM Gombak Campus
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## ACADEMIC QUALIFICATION

- Ph.D in Architecture
- Master of Design Science (Building)
- Bachelor of Science (Architecture)

## TEACHING RESPONSIBILITIES

ADVANCED CADD FOR INTERIOR DESIGN	2017/2018
ADVANCED COMPUTER GRAPHICS	2016/2017 2017/2018
APPLIED ARTS AND DESIGN (AAD) STUDIO 1	2016/2017 2017/2018 2018/2019 2019/2020
APPLIED ARTS AND DESIGN (AAD) STUDIO 2	2016/2017
APPRECIATION OF ASIAN ART AND DESIGN	2017/2018 2019/2020
ARCHITECTURAL DESIGN 1 (STUDIO)	2012/2013 2013/2014 2015/2016
ARCHITECTURAL DESIGN 2 (STUDIO)	2012/2013
ARCHITECTURAL DESIGN 6 (STUDIO)	2014/2015
ARCHITECTURAL DESIGN I (STUDIO)	2005/2006
ARCHITECTURAL DESIGN II (STUDIO)	2004/2005
ARCHITECTURAL GRAPHICS	2015/2016
BUILDING ECONOMICS	2009/2010
BUILDING ENERGY ANALYSIS & CONSERVATION	2007/2008 2008/2009 2009/2010 2010/2011 2012/2013 2013/2014 2016/2017 2017/2018 2018/2019
BUILDING SERVICES 1	2016/2017
BUILDING SERVICES 3	2004/2005 2005/2006
BUILDING SERVICES II	2003/2004
ECOLOGICAL SUSTAINABLE DESIGN	2016/2017
ECOLOGICALLY SUSTAINABLE DESIGN	2011/2012 2012/2013 2014/2015

ENVIRONMENTAL CONSCIOUS DESIGN	2005/2006 2015/2016
ENVIRONMENTAL SCIENCE & SYSTEM 1	2004/2005 2014/2015
ENVIRONMENTAL SCIENCE AND SYSTEMS 2	2005/2006
FIRE TECHNOLOGY	2009/2010
GRAPHICS COMMUNICATION AND PRESENTATION	2017/2018
HABITAT DESIGN I (STUDIO)	2003/2004 2004/2005
HISTORY OF ART	2018/2019 2019/2020
HISTORY OF BUILDING CONSTRUCTION	2011/2012 2017/2018
INTEGRATED MULTI DISCIPLINARY PROJECT 1	2015/2016
INTERIOR DESIGN PROFESSIONAL PRACTICE	2019/2020
INTRODUCTION TO ARCHITECTURE	2003/2004
ISLAMIC CRAFTMANSHIP	2019/2020
LANDSCAPE CONSTRUCTION (SERVICES)	2008/2009 2009/2010
LIGHTING & ACOUSTIC	2008/2009
LIGHTING AND ACOUSTIC	2006/2007 2007/2008 2009/2010 2011/2012 2012/2013 2013/2014 2014/2015 2016/2017
LIGHTING AND COLOUR	2008/2009 2009/2010 2010/2011
PROJECT AND EXHIBITION	2017/2018
RESEARCH METHODOLOGY	2019/2020
SPACE PLANNING AND ERGONOMICS	2017/2018 2019/2020
SUSTAINABLE ECOLOGICAL DESIGN	2007/2008
THEORY OF ARCHITECTURE	2012/2013 2015/2016

## RESEARCH PROJECTS

### In Progress

**2020 - Present** Analysis, Collection, and Classification of Green Life Cycle Carbon - Based Materials and Products and Their Impact on Interior Healthcare Environment

**2019 - Present** KAED PUBLICATIONS ON (IDEATIONS IN ISLAMIC ARCHITECTURE AND THE APPLIED ARTS)

**2019 - Present** KAED PUBLICATIONS ON ( IDEATIONS IN ISLAMIC ARCHITECTURE AND THE APPLIED ARTS)

**2016 - Present** Elements of Energy, Carbon and Climatic Characterization of Malay Architecture in the Tropics in relation to BIM-Linked Dynamic Environmental Simulation and Analysis

**2016 - Present** Characterization of rules of Malay architectural language and its environmental performance

**2015 - Present** Empirical modeling as a strategic environmental cooling and reduction of heat island impact in relation to Islamic and Modern Urbanism Principles

**2013 - Present** Virtual Kuala Lumpur Mosque Content Using Mixed Interactive Mobile Applications Platform

### **Completed**

**2019 - 2020** KAED PUBLICATIONS ON (IDEATIONS IN ISLAMIC ARCHITECTURE AND THE APPLIED ARTS)

**2017 - 2017** Pembinaan Aplikasi i-Islam Perlis Majlis Agama Islam dan Adat Istiadat Melayu Perlis (MAIPs)

**2015 - 2017** Versatile MyMasjid Mobile Application Prototype Development

**2015 - 2018** Empirical modeling as a strategic environmental cooling and reduction of heat island impact in relation to Islamic and Modern Urbanism Principles

**2013 - 2014** Using Augmented Reality in the Dissemination of Cultural Heritage: Evaluating Presence

**2013 - 2018** Virtual Kuala Lumpur Mosque Content Using Mixed Interactive Mobile Applications Platform

**2013 - 2018** Virtual Kuala Lumpur Mosque Content Using Mixed Interactive Mobile Applications Platform

**2010 - 2012** The evaluation on the effectiveness of virtual reality (VR) application on learning history and cultural heritage in informal education institutions

**2010 - 2011** Functionalities of 4D Virtual Construction Simulation Tool in Current Practices of Project Control in Malaysia.

**2009 - 2012** Intergrating Animation and video materials into virtual reality interface-A case study of islamic Architectural heritage complex

**2009 - 2011** The State of ICT Use by Museums in Malaysia

**2008 - 2012** Development of Real Time Visualization in Urban Environmental Performance - Towards Integrating Time Sequencing into Environmental Impact and Performance Analysis in Sustainable Built environmental Urban Planning

**2008 - -1** Daylight Performance of Long-span Airport Terminal Design and its Link with Energy Efficiency and Visual Comfort.

**2007 - 2011** Optimization of the Cooling Systems for Data Centres for the Tropical Environments

- 2007 - 2011** Virtual Reality and Environmental Performance Animation of 'Environmentally-Intelligent' Features of Islamic Architectural Heritage of the Early Persian Civilizations.
- 2006 - 2014** A Thermal Performance Analysis and Storage Potential Study of A Proposed Waste Material Integrated Heat Sink Process in Ground Floor Slab and OutDoor Pavement For Residences In Malaysia
- 2006 - 2009** Integration of Environmental Simulation and Analysis in A Virtual Reality Framework: The Assessment of Urban Masterplan And Outdoor Spaces Based On Environmental Performance in A 3D Real-Time Visualisation In Hot, Humid And Hot, Arid Climates
- 2005 - 2010** An Assessment of The Zero Energy House - A Comparison of Energy Conservation Strategies and Bioclimatic Performances in The Temperate and Tropical Context
- 2004 - 2009** Informing Urban Bioclimatic Design in The Tropics Through Computational Fluid Dynamics

## PUBLICATIONS

### Article

- 2013** [User requirements for virtual reality in architectural heritage learning.](#) International Journal of Interactive Digital Media , 1 (1) pp.37-45
- 2010** [A simulation method to find the optimal design of photovoltaic home system in Malaysia, case study: a building integrated photovoltaic in Putra Jaya.](#) International Journal of Human and Social Sciences , 5 (2) pp.117-121
- 2009** [A simulation method to find the optimal design of photovoltaic home system in Malaysia, case study: a building integrated photovoltaic in Putra Jaya.](#) World Academy of Science, Engineering and Technology , 53 pp.694-698
- 2009** [A simulation method to find the optimal design of photovoltaic home system in Malaysia, case study: a building integrated photovoltaic in Putra Jaya.](#) World Academy of Science, Engineering and Technology , 53 pp.694-698
- [Acceptability of the Malaysian construction practitioners in adopting 4D technology.](#) Malaysian Construction Research Journal

### Conference or Workshop Item

- 2014** [Investigation on women's space in masjid architecture: case study of selected masjids in Malaysia.](#) In: **XXVth International Union of Architects World Congress**
- 2013** [Constructing theories of architecture - Deconstructing the past movements of architecture and design through Islamic perspectives.](#) In: **1st World Congress on Integration and Islamicisation of Acquired Human Knowledge (FWCII 2013)**
- 2011** [The effects of interactive versus passive digital media on Museum Learning.](#) In: **3rd International Conference on Computing and Informatics Computing for Entrepreneurship and Innovation**

- 2010 [Understanding the underlying principles of Masjid architecture through study of built form in place, time, people and culture in demystifying Islamic architecture.](#) In: **IIUM Research, Innovation & Invention Exhibition (IRIIE 2010)**
- 2010 [Virtual reality application for learning history and cultural heritage.](#) In: **IIUM Research, Innovation & Invention Exhibition (IRIIE 2010)**
- 2010 [User Centered Design and evaluation of e-heritage: A virtual reality prototype for learning Architectural heritage in informal education.](#) In: **Proceeding of the 10th International Conference on construction applications of virtual reality**
- 2010 [User-centered design and evaluation of e-heritage: a virtual reality prototype for learning architectural heritage in informal education.](#) In: **10th International Conference on Construction Applications of Virtual Reality (CONVR 2010)**
- 2010 [The level of information and communication technology use by museums in Malaysia.](#) In: **International Symposium on Information Technology 2010**
- 2009 [A new tool for assessment of mould growth on building materials.](#) In: **3rd International Conference on Modeling, Simulation, and Applied Optimization (ICMSAO 2009)**
- 2009 [E-Learning in the teaching of history through architecture.](#) In: **Seminar Kebangsaan ICT dalam Pendidikan 2009**
- 2008 [Study the campus weather observation for environmental monitoring.](#) In: **International Conference on Environmental Design (ICED) - UMRAN 2008**
- 2008 [Integrating virtual reality in environmental and construction research - a case study of a building performance analysis and islamic heritage reconstruction animation.](#) In: **7 th Annual Conference Management in Construction Researchers' Associations MICRA 2008**
- 2008 [Study the performance of porous pavement on urban thermal environment. Part 1: Field observation .](#) In: **Micra 2008**
- 2008 [Integrating a computational fluid dynamics simulation and visualization with a 3D virtual walk through - a case study of Putrajaya .](#) In: **8th International Conference on Construction Applications ov Virtual Reality (CONVR 2008)**
- 2008 [Integration of environmental performance in a virtual reality framework: case study of Putrajaya.](#) In: **8th International Conference on Construction Applications ov Virtual Reality (CONVR 2008)**
- 2008 [Three dimensional user interface for Islamic heritage education and exhibition applications - a proposal.](#) In: **7th Annual Conference Management in Construction Researchers' Association MICRA 2008**
- 2008 [Developing a virtual environment for viewing urban spatial planning and constructional features of an urban heritage site - the case of Fatehpur Sikri, India.](#) In: **8th International Conference on Construction Application of Virtual Reality (CONVR 2008)**
- 2008 [Study the performance of porous pavement on urban thermal environment.](#) In: **7th Annual Conference Management in Construction Researchers' Associations MICRA 2008**

2007 [Virtual reality in heritage studies and historical reconstruction through animation – A case study of a 16th century university complex in the Ottoman world.](#) In: **7th International Conference on Construction Applications of Virtual Reality: October 22-23, 2007**

2007 [Virtual reality in heritage studies and historical reconstruction through animation – A case study of a 16th century university complex in the Ottoman world.](#) In: **7th International Conference on Construction Applications of Virtual Reality:**

#### Book

2014 [Architecture as a celebration of multi-culturalism: revisiting Fatehpur Sikri.](#) IIUM Press . ISBN 9789674183363

2011 [Issues in facilities management and maintenance: a Malaysian perspective.](#) IIUM Press . ISBN 9789674180355

2010 [Architecture as a reflection of social structure : a reminiscence of the Sulaymaniye Complex of Istanbul.](#) Kulliyah of Architecture & Environmental Design, IIUM and Al-Bukhary Foundation . ISBN 978-983-3142-12-5

2009 [Thoughts on the theory and language of architecture : Lecture Series Part 1](#) Ar.Hijjas Kasturi. MPH Group Printing (M) Sdn.Bhd . ISBN 978-983-3855-58-2

2009 [Thoughts on the theory and language of architecture.](#) Kulliyah of Architecture and Environmental Design, IIUM . ISBN 9789833855582

2009 [An anthology of essays on integrating Islamic values in the theory and practice of architecture and the built environment.](#) Kulliyah of Architecture and Environmental Design . ISBN 9833855575

2008 [Proceedings of 8th annual conference on construction application of virtual reality, Seri Pacific Hotel Kuala Lumpur, University Malaysia, 20-21st October 2008.](#) Kulliyah of Architecture & Environmental Design, IIUM . ISBN 9789833142095

#### Book Section

2011 [Assessment of linkage between natural ventilation, thermal comfort and urban morphology of a semi-open plaza in the hot-humid climate .](#) In: **Readings In Contemporary Construction Technology and Management** IIUM Press . ISBN 9789674180515 , pp.73-84

2011 [A method of assessment and organisational database of green materials for sustainable buildings in the tropics - a focus on healthcare facilities .](#) In: **Readings In Contemporary Construction Technology and Management** IIUM Press . ISBN 9789674180515 , pp.85-95

2011 [Towards the zero energy house - a comparison of bioclimatic strategies and thermal comfort issues in two differing climates .](#) In: **Readings In Contemporary Construction Technology and Management** IIUM Press . ISBN 9789674180515 , pp.96-108

2011 [Mould growth prevention in public hospitals: fundamentals, challenges and issues.](#) In: **Issues in facilities management and maintenance: a Malaysian perspective** IIUM Press . ISBN 9789674180355 , pp.1-39

2011 [Energy management issues and practices in regional transportation hubs: a case study of airport terminal.](#) In: **Issues in facilities management and maintenance: a Malaysian perspective** IIUM Press . ISBN 9789674180355 , pp.61-76

- 2011 [Waste management in the working environment: principles, issues and implementation.](#) In: **Issues in facilities management and maintenance: a Malaysian perspective** IIUM Press . ISBN 9789674180355 , pp.198-214
- 2011 [Performance based approaches in fire safety assessment: the case of evacuation time in shopping complexes.](#) In: **Issues in facilities management and maintenance a Malaysian perspective** IIUM Press . ISBN 9789674180355 , pp.215-236
- 2010 [Menara UMNO Penang, Malaysia.](#) In: **Sustainable buildings in practice** Routledge . ISBN 9780415399326 , pp.305-312
- 2010 [Ministry of Energy, Water, Communication \(MEWC\) building Putrajaya, Malaysia.](#) In: **Sustainable buildings in practice** Routledge . ISBN 9780415399326 , pp.295-303
- 2009 [Integrating Islamic values in an ecological outlook of the built environment: a perspective.](#) In: **An Anthology of Essays on Integrating Islamic Values in the Theory and Practice of Architecture and the Built Environment** Kulliyah of Architecture and Environmental Design, IIUM . ISBN 9833855575 , pp.19-35
- 2009 [Spirit of the Shari'ah: its integration in the theory and practice of architecture and urbanism.](#) In: **An Anthology of Essays on Integrating Islamic Values in the Theory and Practice of Architecture and the Built Environment** Kulliyah of Architecture and Environmental Design, IIUM . ISBN 9833855575 , pp.59-75
- 2009 [Thoughts on Islamic values and environmental ethics: a perspective.](#) In: **An Anthology of Essays on Integrating Islamic Values in the Theory and Practice of Architecture and the Built Environment** Kulliyah of Architecture and Environmental Design, IIUM . ISBN 9833855575 , pp.113-117
- 2009 [Islamic values in healthcare architecture.](#) In: **An Anthology of Essays on Integrating Islamic Values in the Theory and Practice of Architecture and the Built Environment** Kulliyah of Architecture and Environmental Design, IIUM . ISBN 9833855575 , pp.121-139
- 2009 [Tawhid and al-Imarah: a philosophical framework of architectural and environmental design education.](#) In: **An Anthology of Essays on Integrating Islamic Values in the Theory and Practice of Architecture and the Built Environment** Kulliyah of Architecture and Environmental Design, IIUM . ISBN 9833855575 , pp.3-15
- 2009 [Light, air and water in the Qur'an: selected aspects of an environmental approach to the built environment.](#) In: **An Anthology of Essays on Integrating Islamic Values in the Theory and Practice of Architecture and the Built Environment** Kulliyah of Architecture and Environmental Design, IIUM . ISBN 9833855575 , pp.143-149
- 2009 [Deriving Islamic law of the built environment from its sources: a conceptual framework.](#) In: **An Anthology of Essays on Integrating Islamic Values in the Theory and Practice of Architecture and the Built Environment** Kulliyah of Architecture and Environmental Design, IIUM . ISBN 9833855575 , pp.39-55
- 2006 [Integrating a computational fluid dynamics simulation and visualization with a 3D virtual walkthrough - a case study of Putrajaya.](#) In: **Innovations in 3D Geo Information Systems** Springer . ISBN 978-3-540-36997-4 , pp.599-614