



**Dr MD ASHIKUR RAHMAN JOARDER** BArch, MArch, PhD, MIAB

**Dr Joarder** has architecture and design background for more than a decade, including more than ten years of research experience on the use of ambient environment monitors (virtual and physical), daylighting and building simulation, to improve visual, therapeutic, and safe environments of industrial, commercial and healthcare facilities. His first degree and higher qualifications are: a BArch in Architecture from BUET (2005); an MArch in Lighting from BUET (2007); a PhD in Built Environment from the School of Civil and Building Engineering (2011) funded by Loughborough University, UK; and an advanced research experience on modelling, simulation and visualisation from the School of Civil and Building Engineering, Loughborough University (2012). Dr Joarder is working as an Associate Professor at the Dept. of Architecture, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh since 2015. He joined as a Lecturer at the Department of Architecture, BUET on 2005. He has also teaching experiences in the Schools of Civil & Building Engineering and Chemical Engineering, Loughborough University, UK (2011-12).

Dr Joarder is a Consultant of Bureau of Research, Testing and Consultation (BRTC), BUET. As an Architect, he was involved in the design of several buildings in Bangladesh (e.g. Design of Mascot Garments and Knitting Industry; and Uniform Design of Sonali Bank) and UK (e.g. Design of forty-bed Care/Nursing Home at Barwell, Leicester; and Extension of Alexandra House, at Huncote, Leicester); and assessment of approximately 450 RMG Factory Buildings in Bangladesh (funded by ILO). Currently, Dr Joarder is working as the Co-ordinator of Green Architecture Cell (GrACe), DoA, BUET and Organising Secretary of Illumination Society of Bangladesh (ISB). Dr Joarder made over 100 high quality presentations on international conferences, seminars, workshops, knowledge transfer events inside and outside Bangladesh (e.g. The Netherlands, Greece, Scotland, Singapore, Spain, UK and USA) and national events sponsored by international organisations, such as ILO and UNEP.

Dr Joarder introduced MArch course 'Daylighting' in the Dept. of Architecture, BUET. He also conducts Postgraduate Course on 'Green Architecture and Sustainability' and 'Luminous Environment and Built-Form' with some other Undergraduate courses at the Dept. of Architecture, BUET on Design, Lighting and Research Methods. He is currently supervising 12 Post-Graduate theses and completed around 100 undergraduate projects/theses supervision. His research interests include daylight modelling and simulation, and evidence based therapeutic and safe environment design for building occupants. He has authored one book (2011); published 20 papers in refereed journals and conferences (2007-16), five articles in national print media (2005-16); contributed in approximately 50 non-referred articles/ review reports and reviewed more than 200 inspection reports in different occasions.

### **Completed Research**

- Sallis, J., Islam, M.Z. and **Joarder, M.A.R.** (2014 – 2016). International Physical Activity and the Environment Network (IPEN) Adolescent: International Study of Built Environments and Physical Activity (Bangladesh). Funded by National Institute of Health (NIH), U.S. Department of Health & Human Services. Prime Award No.: 5R01HL111378-02; FAIR R01HL111378. Subaward No.: 53439982. University of California San Diego, United States.

- Price, A.D.F. and **Joarder, M.A.R.** (2012: Jan – Dec). ‘Delivery of enhanced performance and value through the application of advanced modelling, simulation and visualisation to the design and operation of healthcare facilities’. Funded by a Loughborough University EPSRC IMCRC (EP/E002323/1) and EPSRC HaCIRIC (Health and Care Infrastructure Research and Innovation Centre) core grants (EP/D039614/1 and EP/I029788/1), UK.
- **Joarder, M.A.R.** (2008-11). “Incorporation of Therapeutic Effect of Daylight in the Architectural Design of In-patient Rooms to Reduce Patient Length of Stay (LoS) in Hospitals”. *PhD Research*, School of Civil and Building Engineering, Loughborough University, UK.
- **Joarder, M.A.R.** (2005-07). “A Study of Daylight Inclusion in Luminous Environment of Offices in Dhaka City”. *M. Arch Research*, Department of Architecture, BUET, Dhaka, Bangladesh.

### **Awards/ Grants Received:**

- Shamsunnahar Khanam Memorial Gold Medal, 2006, (for securing the Highest CGPA in the Bachelor of Architecture Examination in the session 2001-2002).
- Loughborough University Research Studentship for full-time PhD research at the School of Civil and Building Engineering, Loughborough University, UK,(2008- 2011).
- Conference grants from BUET to present paper at 48th the International Institute of Engineers and Researchers (IIER) International Conference, December 2015, Spain, Barcelona. US\$ 1500 (from Bangladesh).
- Conference grants from The Center for Health Design to speak at Healthcare Design Conference-Educational Session. November 14-17. Washington, DC. US\$ 1500 (from Bangladesh).
- Conference grants from BUET to present paper at 3rd Annual International Conference on Architecture, June 2013, Athens, Greece, US\$ 1500 (from Bangladesh).
- Conference grants from HaCIRIC to present paper at International Seminar on Architecture: Education, Practice and Research, February 2012, Dhaka, Bangladesh, £740 (from UK).
- Conference grants from HaCIRIC for registration and publish paper at Second International Conference on the Constructed Environment, October 2011, University Center, Chicago, USA, £258 (from UK).
- Conference grants from HaCIRIC to present paper at European Conference on Design for Health, July 2011, Sheffield, UK, £200 (from UK).
- Conference grants from HaCIRIC to present paper at 11th International Building Performance Simulation Association Conference and Exhibition, July 2009, Glasgow, UK, £600 (from UK).
- Conference grants from HaCIRIC to present paper at 6th World Congress on Design and Health, June 2009, Singapore, £2150 (from UK).
- Conference grants from HaCIRIC to present paper at 3rd CIB International Conference on Smart and Sustainable Built Environments, June 2009, Delft, The Netherlands, £800 (from UK).
- Conference grants from HaCIRIC for poster display at ACHSE National Congress, 4-7 August, Gold Coast, Australia. £64 (from UK).

- Conference grants from HaCIRIC to present paper at 2nd International Conference on Whole Life Urban Sustainability and its Assessment, 22-24 April (SUE-MoT 2009), Loughborough, UK, £250 (from UK).
- Conference grants from HaCIRIC to present paper at 2nd Annual International Conference of the Health and Care Infrastructure Research and Innovation Centre, April 2009, Brighton, UK, £550 (from UK).
- Offer for full time PhD research programme from the School of the Built Environment, Oxford Brookes University, Headington Campus, Oxford, UK (2007). [offer not accepted]
- Awarded CASR (Committee for Advanced Studies & Research) grant for the Master of Architecture at the Department of Architecture, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh (2005-07).
- Board Merit scholarship for Higher Secondary Certificate Examination (1998 – 2005).
- University merit scholarship for all term final examinations (1998 – 2005).
- M. A. Khalaque and A.N.H Bari charity scholarship (2003).
- ORCA (Old Rajshahi Cadets Association) merit scholarship (2002).
- University merit scholarship for BUET admission test, 1999 (for securing the 1st position among admitted students in the Department of Architecture, 1998).

### **Membership of Learned Societies, Professional Institutions and Other Noteworthy Affiliations**

- Member, J 020, Institute of Architects Bangladesh (IAB).
- Co-ordinator, Green Architecture Cell (GrACe)
- Organising Secretary, Illumination Society of Bangladesh (ISB)
- Academic Member, Athens Institute for Education and Research (ATINER), belonging to the Architecture Research Unit and the Environment Research Unit.
- Member, BUET Teachers Association (BUET-TA).
- Member, Loughborough University Alumni Association (LUAA).
- Life Member, 20050604124, Association of BUET Alumni (ABUETA).
- Member, Architecture Alumni Association of BUET (ArcAAB).
- Member, 28/1509, Old Rajshahi Cadets Association (ORCA).

### **Reviewer**

- Reviewer, Human Factors: The Journal of the Human Factors and Ergonomics Society, SAGE Publication, USA, August, 2015 – Present.
- Reviewer, AASCIT Health Journal, American Association for Science and Technology, USA. March 2015 – Present.
- Reviewer, Universal Journal of Educational Research, Horizon Research Publishing, USA. October 2014 – Present.
- Member, Editorial and Reviewers' Board, Athens Journal of Architecture, Athens Institute for Education and Research (ATINER), Athens, Greece. November 2014 – Present.
- Member, Editorial Board/Reviewer's Team, International Journal of Advances in Engineering Research, and International Journal of Research in Science & Technology. IRA Publications, India, August, 2015 – Present.
- Reviewer, Protibesh: The Research Journal of the Department of Architecture, Directorate of Advisory, Extension and Research Service, BUET, June, 2016 – Present.
- Reviewer, 10th International Conference on Marine Technology (MARTEC 2016), Dhaka, Bangladesh.

## Selected Publications

- **Joarder, M.A.R** and Price, A.D.F. (2017) "Association between Outdoor Ambient Illuminance and Elderly People's Moods in a Care Home". *Athens Journal of Health*. **4 (1)**: March 2017. pp. 07–25.
- **Joarder, M.A.R** and Price, A.D.F. (2013). "Impact of daylight illumination on reducing patient length of stay in hospital after coronary artery bypass graft surgery". *Lighting Research & Technology*. **45 (3)**: pp. 435–449; DOI: 10.1177/1477153512455940.
- **Joarder, M.A.R.** and Iqbal, M.N. (2015) "Green Daylit Industry for Dhaka: An evaluation of Integrated Skylights and Solar Panels for RMG Factory Buildings". *Proceedings of 48th the International Institute of Engineers and Researchers (IIER) International Conference*, Spain, Barcelona, 11th December 2015, pp. 15-20.
- **Joarder, M.A.R** and Price, A.D.F. (2012). "Impact of Climate Change on the Constructed Luminous Environment: An Evaluation for the Hospital In-patient Rooms Located in London". *The International journal of the Constructed Environment*, **2 (3)**: pp. 219-232.
- **Joarder, M.A.R,** Price, A.D.F. and Mourshed M.M. (2010). "Access to Daylight and Outdoor Views: A comparative study for therapeutic daylighting design". *World Health Design*, **3 (1)**: pp. 62-69.
- **Joarder, M.A.R** (2009). "A Survey on Daylighting Potentiality in the Offices of Dhaka Bangladesh". *Global Built Environment Review (GBER)*, **7(1)**: pp 5-22.
- **Joarder, M.A.R** and Ahmed, Z.N., 2015. "Daylighting Inside Glass Boxes: Responsiveness of Interior Design to External Façade", pp. 107-124. In Khatib J.M. (ed) *Architecture Anthology I: Architectural Construction, Materials and Building Technologies*. Athens Institute for Education and Research. Athens, Greece, ISBN: 978-960-598-026-9.
- **Joarder, M.A.R.** and Price, A.D.F. (2012). "Therapeutic Daylight for Hospital Patients: A Search for the Benchmarks". *Proceedings of the First European Conference on Design 4 Health 2011*, 13 - 15 July 2011, Sheffield UK, pp 159-174.
- **Joarder, M.A.R,** Ahmed, Z.N., Price, A.D.F. and Mourshed M.M. (2009). "A Simulation Assessment of the Height of Light Shelves to Enhance Daylighting Quality in Tropical Office Buildings under Overcast Sky Conditions in Dhaka, Bangladesh". *11th International Building Performance Simulation Association Conference and Exhibition*, 27-30 July (IBPSA, 2009), Glasgow, UK, pp. 1706-13.
- **Joarder, M.A.R** Price, A.D.F. and Mourshed M.M. (2009). "The Changing Perspective of Daylight Design to Face the Challenge of Climate Change". *3rd CIB International Conference on Smart and Sustainable Built Environments*, 15-19 June (SASBE, 2009), Delft, The Netherlands, (CD).
- **Joarder, M.A.R,** Ahmed, Z.N., Price, A.D.F., and Mourshed M.M. (2009). "Daylight Simulation for Sustainable Urban Office Building Design in Dhaka, Bangladesh: Decision-making for Internal Blind Configurations". *2nd International Conference on Whole Life Urban Sustainability and its Assessment*, 22-24 April (SUE-MoT 2009), Loughborough, UK, pp. 218-41.
- **Joarder, M.A.R,** Price, A.D.F., and Mourshed M.M. (2009). "A Systematic Study of the Therapeutic Impact of Daylight Associated with Clinical Recovery". HaCIRIC PhD workshop, *2nd Annual International Conference of the Health and Care Infrastructure Research and Innovation Centre, Improving healthcare infrastructures through innovation*, 1-3 April (HaCIRIC, 2009), Brighton, UK, pp. 25-31.

- **Joarder, M.A.R.**, Price, A.D.F. and Mourshed, M.M. (2009). "Impact of Daylight on Open Heart Surgery Patients: An Evidence Based Study necessary for Therapeutic Daylighting Design". *6th World Congress on Design and Health*, June 24-28, Singapore, pp.16.

### **Selected Invited Presentations**

- **Joarder, M.A.R.** (2015). "Evidence Based Design: Research and Practice". Keynote Speech at International Conference on Recent Innovations in Engineering and Technology (ICRIET). Spain, Barcelona, 11th December 2015.
- **Joarder, M.A.R.** (2015) "E71: Health Economics -Impact of Economical and Environmental Factors on the Duration of Patient Hospital Stay: Evidence from Bangladesh". Healthcare Design Conference, Educational Session. 16 November 2015. Washington, DC.
- **Joarder, M.A.R.** (2016) "Student Evaluation and Outcome Based Learning (OBL) in Architectural Education". Workshop on Quality Assurance in Architecture Education: Team Building. Organised by Self-Assessment Committee, Department of Architecture, BUET. 15 June 2016, Dhaka.
- **Joarder, M.A.R.** and Iqbal, M.N. (2016). "Scientific Research and Its Publication: Write Your Own Story - Integration of Skylights and Solar Panels for RMG Factory". GOBESHONA-Arch-Graduate Research Series. 30 January, 2016. Department of Architecture, Bangladesh University of Engineering and Technology (BUET). Dhaka.
- **Joarder, M.A.R.** (2014). "Therapeutic Daylit Hospital: A Concept for Healthy Building", Institute of Architects Bangladesh (IAB) Lecture, Chhayanaut Seminar Room, Dhanmondi. 22 May, Dhaka.
- **Joarder, M.A.R.** (2014). "Climate Based Daylight Modelling (CBDM)". Two-day workshop for the course 'Luminous Environment and Built-Form' (ARCH 6103), of the Master of Architecture (M.Arch) programme, at the Department of Architecture, 23 February and 2 March, BUET, Dhaka.
- **Joarder, M.A.R.** (2014). "Energy Efficiency: Reduced Energy Consumption", UNEP-BUET Workshop: Technical Training for Social Housing Stakeholders in Bangladesh, Department of Architecture, 27 April, BUET.
- **Joarder, M.A.R.** (2013). "Passive Fire Protection - From Architectural Perspective"; Technical Workshop on Harmonizing Factory Safety Assessment Standards, between Accord on Fire and Building Safety, European Union; Alliance for Bangladesh Worker Safety, United States; and The National Tripartite Partners (NTP), Govt. of Bangladesh. Hotel Pan Pacific Sonargaon, 7 November, Dhaka.
- Shikder, S. and **Joarder, M.A.R.** (2011). "Improving the Therapeutic Performance of Healthcare Spaces: Modelling, Simulation and Visualisation (MSV) of Aesthetics and Lighting". Final Project Reviews, Health and Care Infrastructure Research and Innovation Centre (HaCIRIC), Imperial College, 20 October, London.
- **Joarder, M.A.R.** (2009). "Direct and Indirect Impacts of Daylight on Hospital Patients and an Evidence Based Research Necessary for Sustainable Daylit Hospital Design". *PhD Workshop, Second International Conference on Whole Life Urban Sustainability and its Assessment*, 22 April (SUE-MoT 2009), Loughborough, UK.

- Ahmed, Z.N. and **Joarder, M.A.R.** (2007). “Architecture and Electrical Engineering”. Seminar on “Architecture Appreciation for Engineers”, to introduce 3 Credit hours Architecture Appreciation Course (ARCH 3603) for the Dept. of Civil Engineering (CE), Dept. of Electrical & Electronic Engineering (EEE), Dept. of Mechanical Engineering (ME) and Dept. of Industrial & Production Engineering (IPE) Dept. BUET, 19 February, Dhaka.
- **Joarder, M.A.R.** (2005). “The Prospect of Fabric as an Alternative Building Material in the Architecture of Bangladesh”. *Presentation on Tensile Architecture*, Department of Architecture, BUET, 15 February, Dhaka.

### **Selected Professional Works**

- **Team Leader**, Design of BUET Specialized Hospital, Dhaka. Consulting Architect-Teachers Forum - Bureau of Research, Testing and Consultation (CAF – BRTC), Department of Architecture, BUET, Dhaka. 2015 – Present.
- **Team Member**, Design and Implementation of Dhaka Bishwa Biddalaya Swadhinata Sriti Shoudha, based on the students’ concept that won the first place on Open Architectural Design Competition at Dhaka University. CAF – BRTC, Department of Architecture, BUET, Dhaka. 2015 – Present.
- **Team Member**, Design of 16 Story MSN-KCC Building. Material Science & Nano Technology Dept. (MSN) and Kazi Convention Center (KCC) at West Palashi, BUET, Dhaka. CAF – BRTC, Department of Architecture, BUET, Dhaka. 2014 – Present.
- **Team Leader**, ILO- Fire & Electrical Safety Assessment in Existing RMG Factory Building Project (Phase 1 & Phase 2). Consulting Architect-Teachers Forum - Bureau of Research, Testing and Consultation (CAF – BRTC), Department of Architecture, BUET, Dhaka. 2013 – 2016.
- **Advisor**, Design of forty-bed Care/Nursing Home at Barwell, Leicester, UK, 2009 – 2012.
- **Advisor**, Extension of Alexandra House (adding approximately 25 bedrooms and other required facilities to existing 17 bedded Care Home) at Huncote, Leicester, UK. 2009 – 2012.
- **Team Leader**, Design of Green Knit Apparels Ltd., Ashulia. CAF – BRTC, Department of Architecture, BUET, Dhaka. 2014 – Present.
- **Team Member**, Design of Sonali Bank Vertical Extension and Training Institute, Rangpur. CAF – BRTC, Department of Architecture, BUET, Dhaka. 2014 – Present.
- **Team Member**, Uniform Design of Sonali Bank: Regional office and Treasure Branches’ at nine different sites in Bangladesh. CAF – BRTC, Department of Architecture, BUET, Dhaka. 2006 – 2008
- **Advisor**, Design of Ena Galleria & Ena Serenade, 15 storied Apartment cum Shopping Complex at Central Road, Dhaka. RSA, (An Architectural & Interior Consulting Firm) Gulshan, Dhaka. 2005
- **Architect’s Associate**, Design of Mascot Garments and Knitting Industry and Renovation design of corporate office of Oponin Group. ARCANUM, (An Architectural Consulting Firm), Dhaka .2002 – 2005
- **Architect’s Associate**, Design competition for North South University. *Bashirul Haq & Associates Ltd.* 2002

## **Selected Responsibilities**

- **Judge**, Drawing and painting competition & Cake Making Contest, Engineering University Girls' School, Dhaka. Jan 2016, Feb 2015.
- **Convener**, Need Assessment Committee for Space Organisation (NASCO), Department of Architecture, BUET, Dhaka. 2016.
- **Member**, Implementation Committee for collaboration between Bangladesh University of Engineering And Technology (BUET) and University of Maryland (UMD), USA and National Fire Protection Association (NFPA), USA, 2015.
- **Convener**, Press and Invitation Sub-Committee, UNEP-BUET Workshop Organizing Committee. Department of Architecture, BUET, Dhaka. 2014.
- **Manager**, Inter Faculty VC Cup Football Tournament, Faculty of Architecture and Planning. BUET, Dhaka. 2014
- **Member Secretary**, Management Committee (MC), Consulting Architect-Teachers Forum-Bureau of Research, Testing and Consultation (CAF – BRTC). Department of Architecture, BUET, Dhaka. 2014 – Present.
- **Member**, Co-Coordination Committee, Fire & Electrical Safety Assessment for Existing RMG Factory Buildings in Bangladesh, BUET. 2014 – Present.
- **Member-Secretary**, Prospectus Editorial Committee, Department of Architecture, BUET, Dhaka. 2014 – Present.
- **Member Secretary**, Architecture Department Monitoring Committee (ADMC). Department of Architecture, BUET, Dhaka. 2013 – 14.
- **Member Secretary**, Seven Rings Cement Study Tour Programme for Students of Architecture. Department of Architecture, BUET, Dhaka. 2013 – Present.
- **Member Secretary**, Faculty Meeting(s). Faculty of Architectural and Planning. BUET. 2013 – 14.
- **Member Secretary**, Institute of Architects Bangladesh (IAB) Enquiry Committee. 2013.
- **Hospital Expert**, Extended Study Tour sponsored by Seven Rings Cement Study Tour Programme. 2013.
- **Member**, BUET Architecture, Civil Engineering (ACE) Support Team. 2013.
- **Rapporteur**, 20th General Assembly and Conference of Commonwealth Architects Association (CAA). Dhaka, Bangladesh. 2013.
- **Member**, Organizing committee, Seminar- Introduction to statistics for researchers. Loughborough University, UK. 2012.
- **Research Associate (RA)**, Construction Management Research Group, School of Civil and Building Engineering, Loughborough University, UK. 2012.
- **Student Liaison Assistant (SLA)**, Student Support Centre, Loughborough University, Loughborough, UK. 2011.
- **Action Representative**, Fun Day. Loughborough University, Loughborough, UK. 2008.

## **Selected Attended Training/Seminar/Workshop Programs**

- IAB Workshop: Graduate Attributes and Developing Learning Outcomes. January 28, 2016. North South University. Dhaka.
- Workshop on Green Buildings: Sustainable Building Design and Green Building Certification. 11 April 2015. Dhaka.
- Teachers' Appreciation Workshop. Organized by Directorate of Continuing Education, Bangladesh University of Engineering and Technology, 27-29 March 2015, Dhaka, Bangladesh.
- Compliance with San Diego State University (SDSU) Training in the Ethical and Regulatory Issues Associated with the Protection of Human Subjects in Research. SDSU Human Subjects Tutorial Certificate of Completion. 25 April 2014. From Dhaka, Bangladesh. (online).
- Successful Teaching and Assessment for Researchers (STARs). Organized by the Teaching Centre and the Research Office, Loughborough University, 25 Sep 2012, UK.
- Teaching Skills for Postgraduates and Research Assistants: Preparing to Teach; Promoting Learning; Working with Small Groups. Organized by the Graduate School, Loughborough University, 13 January - 17 February, 2011, UK.
- BUET-TAMU cooperation program: Two-Day Workshop on Building Services for Professionals, 27-28 June 2014, Department of Architecture, BUET. (as member of organising committee)
- UNEP-BUET Workshop: Technical Training for Social Housing Stakeholders in Bangladesh, Department of Architecture, 26 and 27 April 2014, BUET.(as expert speaker)
- CIBSE CPD Workshop on Lighting Masterclass - Lighting for the Future. Organized by the Society of Light and Lighting, CIBSE, 28 January 2010, Leicester, UK.
- CRIA CIEF workshop: Site visit to BASF House - Zero Carbon Home. Organized by the School of the Built Environment, University of Nottingham, 7 October 2008, Nottingham, UK.
- Capacity Building Training for Fire Safety Audit. ILO – BUET Building Safety Assessment (Fire Safety) for RMG Sector in Bangladesh Project. Jointly organised by ILO and Bureau of Research, Testing and Consultation (BRTC), Bangladesh University of Engineering and Technology, 29 Aug- 1 Sep 2013, Dhaka.
- Integrating Teaching, Research and Professional Practice. Organised by Staff Development office, Loughborough University. 12 Jun 2012.
- Qualitative Analysis - an Introduction to Collecting and Analysing. Organised by Staff Development office, Loughborough University. (Part A, 15 Jun 2011; and Part B, 22 Jun 2011).
- Questionnaire Design. Organised by Staff Development office, Loughborough University. 19 Oct 2011.
- Introduction to the Design of Surveys and Experiments. Organised by Staff Development office, Loughborough University. 14 Mar 2012.
- Introduction to Statistical Methodology. Organised by Staff Development office, Loughborough University. 09 Mar 2011.



- Project Management in the Real World. Organised by Staff Development office, Loughborough University. 17 May 2012.
- Real Creativity - A Constructive Approach to Problem Solving. Organised by Staff Development office, Loughborough University. (Part A, 20 Oct 2009 and Part B, 21 Oct 2009).
- Writing a Successful Research Bid. Organised by Staff Development office, Loughborough University. 13 Jun 2012.
- Ethics and Governance in Health Care Research. Organised by Staff Development office, Loughborough University. 02 Jun 2008.
- Collaboration: Tools to Help you share and communicate your research. Organised by Staff Development office, Loughborough University. 14th Jun 2012.

## Teaching activities

### i) On-going Postgraduate Thesis Supervision

- **Incorporation of Useful Daylight in Luminous Environment of RMG Factories by Effective Use of Skylights in Context of Dhaka** by Md. Nahid Iqbal. M. Arch Research, Department of Architecture, BUET, Dhaka, Bangladesh. Sep 2015
- **Study of Fire Risk for Designing and Retrofitting Ready Made Garment Factories in Bangladesh** by S. M. Shakib Hossain. M. Arch Research, Department of Architecture, BUET, Dhaka, Bangladesh. (on-going)
- **Study on the Potential of Light Wells in Deep Plan Readymade Garments Factory Buildings in Dhaka** by Razia Sultana. M. Arch Research, Department of Architecture, BUET, Dhaka, Bangladesh. (on-going)
- **Configuration of Windows and Partition Walls of Residential Apartments to Improve Daylight Condition in Dining Spaces.** by Fariha Seraj. M. Arch Research, Department of Architecture, BUET, Dhaka, Bangladesh. (on-going)
- **Study of Hospital Building Envelop to Facilitate Passive Cooling Inside In-Patient Rooms in the Context Of Rajshahi, Bangladesh.** by Md. Sabbir Ahsan. M. Arch Research, Department of Architecture, BUET, Dhaka, Bangladesh. (on-going)
- **Investigation on means of egress and exit strategies to ensure fire safety in multistoried readymade garment (RMG) factory buildings.** by Sumaiya Mehjabeen. M. Arch Research, Department of Architecture, BUET, Dhaka, Bangladesh. (on-going)
- **Study of the potential of light pipes to improve luminous environment of readymade garment (RMG) factories in Bangladesh.** by Farzana Sharmin. M. Arch Research, Department of Architecture, BUET, Dhaka, Bangladesh. (on-going)
- **Biomimicry Inspired Design for Daylighting in Tropics.** by Md. Obidul Haque. M. Arch Research, Department of Architecture, BUET, Dhaka, Bangladesh. (on-going)
- **Simulation Analysis of the Configuration of Vertical Louvers to Incorporate Therapeutic Daylight in General Wards of Hospital Buildings Located in Dhaka, Bangladesh.** by Md. Monir Hossain. M. Arch Research, Department of Architecture, BUET, Dhaka, Bangladesh. (on-going)

- **A Study of Thermal Performance of Green Roofs for Sustainable Textile and RMG Industry Design in context of Dhaka.** by Siddiqua Nasrin Sultana Ananna. M. Arch Research, Department of Architecture, BUET, Dhaka, Bangladesh. (on-going)
- **Water Conservation in Textile and RMG Factory Buildings for Green Industrial Development in Bangladesh** by Kazi Sayeed Morshed. M. Arch Research, Department of Architecture, BUET, Dhaka, Bangladesh. (on-going)
- **Design Process of Daylight Respondent Envelop Readymade Garments Factory Buildings** by Sayma Jahan. M. Arch Research, Department of Architecture, BUET, Dhaka, Bangladesh. (on-going)
- **Students Performance Evaluation under different Daylighting levels in Classrooms of Dhaka** by Farhana Ahsan. M. Arch Research, Department of Architecture, BUET, Dhaka, Bangladesh. (on-going)

ii) **Member of Doctoral Committee of PhD Thesis and Oral Examination of M.Arch Thesis**

- **Establishing Green Rating System for Buildings of Bangladesh** by Tasneem Tariq, PhD Research, Department of Architecture, BUET, 2015, Dhaka, Bangladesh.
- **Study of Daylight Condition in Classrooms of Urban Primary School Buildings in Sylhet with Respect to Visual Performance** by Mohammad Saifuzzaman, M. Arch thesis, Department of Architecture, BUET, 14 February 2016, Dhaka, Bangladesh.
- **Assessment of HVAC Load in Light Zones to Determine Energy Efficient Shading for Tall Office Buildings of Dhaka** by Syma Haque Trisha, M. Arch thesis, Department of Architecture, BUET, 20 November 2015, Dhaka, Bangladesh.
- **A Parametric Study of Biomimetic Design of High Rise Office Building Facades in View of Optimizing Natural Ventilation Potential in the Humid Tropics** by Kumar Biswajit Debnath, M. Arch thesis, Department of Architecture, BUET, 23 September 2014, Dhaka, Bangladesh.

iii) **Postgraduate Teaching at Bangladesh University of Engineering and Technology**

- ARCH 6103: Luminous Environment and Built-Form (2016, 2013, 2014)  
 ARCH 6107: Daylighting (2015)  
 ARCH 6107: Green Architecture and Sustainability (2014)

iv) **Selected List of Undergraduate Thesis Supervision**

- **Design of Adaptable-Portable Dwelling Unit for Urban Poor in Bangladesh.** By Nusrat Jahan Mim. Department of Architecture, BUET, Dhaka, Bangladesh, 2013. [*Awarded Holcim Awards "Next Generation" 2nd prize 2014 for "Adaptable Portable: Modular housing for urban poor, Dhaka, Bangladesh"*].
- **Industrial Resolution: Integrated Work-space Module for the Informal Metalwork Micro Industries of Zinjira.** Tawapotti Bazaar, Zinjira, Dhaka. Srijon Barua, 2015.
- **Village Reconstruction: Rethinking Rural Dwelling Patterns & Building Self-sustained Communities, Bogra.** Sadia Sharmin, 2015.
- **Reviving the Historic Neighbourhood 'BIRULIA' through Architectural Conservation and Adaptive Re-use, Birulia, Savar.** Enam Rabbi Adnan, 2015.
- **Revitalizing the Urban Retail Hub: Coexistence of formal & informal retailing of Dhaka New Market Area. New Market, Dhaka.** Sanzida Nowroz Tarin, 2015.

- **Development of Community based Eco-Tourism at Hakaluki Haor, Sylhet.** By Shaswati Chwdhury. Department of Architecture, BUET, Dhaka, Bangladesh, 2013.
- **Towards a Sustainable Settlement for the Non-Bangali Ethnic Community at Geneva Camp. Mohammadpur, Dhaka.** By Imamur Hossain. Department of Architecture, BUET, Dhaka, Bangladesh. 2013.

v) **Selected List of Undergraduate Project Supervision**

- **National Institute of Art & Technology, Purbachal, Dhaka.** Shahida Sharmin. 2013. [*3rd Prize (Institutional Building: Concept), "Rethinking the Future Award: 2014", July 2014, International Architectural Design Competition; & Honourable Mention, "Innovative Minds 2014: Dimensional Evolution", July 2014, International Design Competition.*]
- **Ayurvedic Wellness Center: A Multidimensional Approach to Health, Banasree, Dhaka.** Nabanita Mazumder, 2015.
- **Substance Abuse Treatment, Rehabilitation and Aftercare Centre, Rajshahi.** Fahim Ul Alam, 2015.
- **Mohakhali IT Village, Mohakhali, Dhaka.** Mazharul Islam, 2015.
- **Design of an Eco-Sustainable Tannery, Tannery Industrial Estate, Tetuljhora, Savar.** Udday Shankur Datta, 2015.
- **Institute for Autism Mohakhali, Dhaka.** Ahmed Yousuf Ibn Kabir Khan, 2015.
- **Resourcing Wastes: A high-rise housing towards zero waste society, Purbachal, Sector 2, Dhaka.** Samain Sabrin, 2015.
- **Thakurgaon Sadar Hospital, Thakurgaon.** Ashrafun Nahar, 2015.
- **Cancer Research Institute Hospital, Purbachal, Rajuk, Sector 10, Thana 2.** Rifat Sharmin, 2015.
- **Symbiotic & Adaptive Regeneration: Reviving Anderkilla Jame Mosque and Adjacent Book Market, Chittagong.** Maherul Kader Prince, 2015.
- **Design of a GREEN Pharmaceutical Industry, KEPZ, Anowara, Chittagong.** Md. Saiful Alam. 2013.
- **National Institute of Child & Adolescent Mental Health & Hospital, Mirpur, Dhaka.** Nayeem Asif. 2013.
- **Children's Specialized Hospital, Sylhet.** Zannatul Ferdous. 2013.
- **Treatment, Rehabilitation & Aftercare village for addicts, Mominkhola, Sylhet.** Nadia Nusrat. 2013.
- **500 Bed General Hospital, Purbachal.** Sadia Ishrat. 2013.
- **Software & Robotic Research Institute, Purbachal, Dhaka.** Santano Debnath. 2013.

**vi) Undergraduate Teaching at Bangladesh University of Engineering and Technology**

ARCH 251:	Visual Environment (2016)
ARCH 231:	Environment & Design II: Visual & Sonic Environment (2014, 2013)
ARCH463:	Survey Technique and Analytic Method (2016, 2015, 2007, 2006)
ARCH573:	Professional Practice (2013)
ARCH504:	Design Studio X – Thesis (2015, 2013)
ARCH506:	Design Studio X – Project (2015, 2013)
ARCH304:	Design Studio VI (2007, 2006)
ARCH302:	Design Studio V (2015, 2013, 2006, 2005)
ARCH 202:	Design Studio III (2016)
ARCH102:	Design Studio I (2014, 2008)
ARCH 522:	Seminar (2015, 2014)
ARCH524:	Dissertation (2016, 2013)
ARCH526:	Construction Document (2015)
ARCH 324:	Working Drawing II: Production Drawing (2013)
ARCH226:	Landscape Planning Studio (2008)
ARCH112:	Architectural Graphics I (2016, 2006)
ARCH222:	Computer Graphics (2007, 2005)
ARCH124:	Computer Applications (2006)

**Examiner at Bangladesh University of Engineering and Technology**

ARCH 497:	Health Facilities Planning and Design (2014, 2013)
ARCH 237:	Environment & Design III: Design in the Tropics (2013)

**vii) Teaching at Loughborough University**

10CVA011:	2D CAD for Architectural Design (2011)
10CGA006:	Heat Transfer - Drawings for Chemical Engineering (2011)

**Travel**

Belgium, Denmark, France, Greece, Germany, Italy, Netherlands, Norway, Singapore, Spain, Scotland, Switzerland, Thailand, USA, United Kingdom, United Arab Emirates.

**Personal Webpage**

<http://www.buet.ac.bd/arch/index.php/page/staff/1>  
<https://buet.academia.edu/AshikJoarder>

**Links**

<http://scholar.google.com/citations?user=aGEzt84AAAAJ&hl=en>  
[https://www.linkedin.com/profile/view?id=376708848&trk=spm\\_pic](https://www.linkedin.com/profile/view?id=376708848&trk=spm_pic)  
[https://www.researchgate.net/profile/Ar\\_Joarder](https://www.researchgate.net/profile/Ar_Joarder)