

Ar.Kulsum Fatima, IGBC AP

Assistant Professor (Senior Scale)

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Telephone: 9871522876 | 01126981717 | 01126981232 www.jmi.ac.in | kfatima@jmi.ac.in | kulsumreema@gmail.com**Education****PGDRE** in Renewable Energy, 2012, TERI University, New Delhi, India**Master of Architecture** (Building Services), 2010, JMI University, New Delhi, India**Bachelor of Architecture** 2008, JMI University, New Delhi, India**Experience**

- 2010-Present **Assistant Professor**, Faculty Of Architecture & Ekistics, Jamia Millia Islamia, New Delhi
- 2009-2010 **Lecturer** at MB Institute Of Technology, Directorate Of Training & Technical Education, Govt. Of Nct Of Delhi, Pitampura
- 2008-2009 **Project Manager**, Eco3design Consultants (Pvt.) Shapurjat, New Delhi
- 2008 Jan-May **Architect Intern** at Space Design Consultant Pvt. Ltd. Greater Kailash – II, New Delhi

**Certification/
License**

- 2017- Present **Member** Sectoral Steering Committee for the Habitat Sector, Technology Information, Forecasting and Assessment Council (TIFAC), Department of Science and Technology, Govt. of India.
- 2016-Present **Member** SOCIETY FOR URBAN ECOLOGY (SURE) - Salzburg / Austria
- 2010-Present **Accredited Professional** Indian Green Building Council - IGBC AP, Confederation of Indian Industries
- 2009-Present **Associate Member** Indian Society of Heating, Refrigerating and Air-conditioning Engineers – ISHRAE Delhi Chapter, India Mem. No. DL/00/AS/1344
- 2008-Present **Professional Certification** Council of Architecture - COA, India Reg.No: CA/2009/46666

**Research/
Scientific
Committee**

- 2017 **Thematic Lead** - Water, TNA on Habitat Sector, National Steering Committee, TIFAC
- 2017 **Co-coordinator** [International Seminar on Water Pollution & Health](#) jointly organized by Jamia Millia Islamia & University College of London, UK at Jamia Millia Islamia, New Delhi 27th & 28th July 2017
- 2017 **Co-coordinator** [International workshop on Yamuna Water Quality and Its Impact on Human Health & Settlements](#) at Jamia Millia Islamia in [Collaboration with University College of London, UK](#) - 6th April 2017
- 2017 **Co-Chair** Technical Session on Geoinformatics in Forest management during National Conference on Geoinformatics for Natural Resource Management organized by Dept. Geography, Faculty of Natural Sciences, Jamia Millia Islamia, New Delhi, 7th – 8th February 2017
- 2016 **Co-Chair & Organizer** [“International Workshop on Inclusive Cities”](#) at Jamia Millia Islamia, New Delhi, India in [collaboration with & San Diego State University, USA](#) - 19th & 20th December 2016
- 2016 **Reviewer – IBPSA** "15th International Conference of International Building Performance Simulation Association" August 2017, California, USA
- 2016 **Member Scientific Committee – IEREK** "International Conference on Green Urbanism" organized by IEREK (International Experts for Research Enrichment and Knowledge Exchange), Italy 2016
- 2015 **Reviewer – IBPSA** "14th International Conference of the International Building Performance Simulation Association" December 2015 at Hyderabad, India
- 2015 **Member Scientific Committee – IEREK** "International Conference on Urban Planning and Architectural Design for Sustainable Development" (UPADSD) organized by IEREK (*International Experts for Research Enrichment and Knowledge Exchange*), Italy 2015

**Honours +
Awards**

- 2017 **Guest of Honor** International Conference on Emerging Trends in Engineering, Technology, Science and Management, IIMT College of Engineering, Greater Noida on 12th April, 2017
- 2015-2016 **Honorary Deputy Director** – Global Jamia Alumni Network, Jamia Millia Islamia
- 2010-2011 **Gold Medal** - Masters in Architecture, Jamia Millia Islamia
- 2007-2008 **Certificate of Excellence** – Event at Synergy, 49th Annual NASA Convention
- 1999-2000 **Chatra Pratibha Puruskar** - Hindi Academy Delhi
- 1997-1998 **National Heritage Protection Council** - Distinction in Arts & Paintings, New Delhi

**Administrative
Experience**

- 2017 **Networking Coordinator** - Global Jamia Alumni Network, Jamia Millia Islamia
- 2017 **Member**, Faculty Committee, Dept. Architecture, Jamia Millia Islamia
- 2016 **Member**, Administrative Committee, GJAN, Jamia Millia Islamia
- 2016 **Coordinator** Heritage Field Study Visit Jaipur, Agra, Fatehpursikri & Sikandara, April 2016

- 2015 **Coordinator** Heritage Field Study Visit in Delhi, Mehrauli, Hauz Khas, Tughlaqabad fort, Red Fort, Purana Qila, Old Delhi, etc, December 2015
- 2015 **Member**, Hospitality Committee for **NAAC** Visit 2015, Jamia Millia Islamia, New Delhi
- 2015 **Assistant Centre Superintendent**, University Entrance Examinations, Centre No.5, New University Polytechnic Building, Jamia Millia Islamia, New Delhi
- 2015 **JMI Observer**, B.Tech (Rescheduled) Entrance Exam 2014 at Glorious Public School, Sec-9, Rohini, Opp. Dharam Kunj Appt. Near Rohini West Metro Station, New Delhi-110085
- 2014 **Member**, Stage Decoration Committee for Annual Convocation 2014, Jamia Millia Islamia, New Delhi
- 2014 **Assistant Centre Superintendent**, B.Tech. Entrance Test, Centre No.54, Ambedkar Institute Of Technology, Geeta Colony, East Delhi
- 2013-2015 **External Examiner**, Lingaya's School of Architecture, Faridabad, India
- 2013 **External Examiner**, Guru Gobind Singh, Indraprastha University, MBS School of Planning & Architecture, Dwarka, India
- 2013-Present **Course Coordinator** 3rd Yr. B. Architecture, Dept. Architecture, Jamia Millia Islamia
- 2011 **Organizing Secretary**, International Conference on Islamic Art & Architecture, Faculty of Architecture & Ekistics, Jamia Millia Islamia, New Delhi, India
- 2011-Present **Educational Tour Incharge**, 3rd Yr. & 2nd Yr. B. Architecture, Jamia Millia Islamia
- 2010-Present **Member Board of Studies**, Dept. Architecture, Jamia Millia Islamia
- 2010-Present **Member Jamia Teachers Association**, Jamia Millia Islamia
- 2010-Present **Expert Evaluator For IGNOU** – Indira Gandhi National Open University

**Invited
Lecture/
Talks**

- April **2017** Illrd year Design Crit for CDP Project at **City School of Architecture, Kitulwatta Road, Colombo, Sri Lanka** 25th April 2017
- April **2017** Urban Environmental Planning & Infrastructure with reference to Inclusive Cities At Dept. Geography, **University Of Peradeniya, Peradeniya, Srilanka** – 21st April 2017
- April **2017** Urbanization & Its Impact on Yamuna River - A case of Jamia Nagar Area during **International workshop on Yamuna Water Quality and Its Impact on Human Health & Settlements** at Jamia Millia Islamia in Collaboration with University College of London, UK - 6th April 2017
- December **2016** "Solar Passive Architecture" at AGDPRE – Teri University, Vasant Kunj, New Delhi
- November **2016** "5 years Plans for Urban Planning in India" for E- Pathshala Of University Grants Commission, Government of India
- November **2016** "Urban Morphology Of Jaipur" for E- Pathshala Of University Grants Commission, Government of India
- April **2016** "Solar Passive Architecture & its Application in Indian Climatic Zones" at AGDPRE – Teri University, Vasant Kunj, New Delhi
- March **2016** "Technologies for energy Efficiency & Conservation Opportunities in Building Design" at Department of Architecture, Manipal University, **Dubai International Academic City, Dubai, United Arab Emirates (UAE)**
- January **2016** "Urban Morphology Of Chandigarh" for E- Pathshala Of University Grants Commission, Government of India
- December **2015** "Solar Passive Architecture" at AGDPRE – Teri University, Vasant Kunj, New Delhi
- August **2015** "Urban Morphology Of Delhi" for E- Pathshala Of University Grants Commission, Government of India
- April **2015** Project Formulation meeting at Indo-French Centre for Groundwater Research at **CSIR-National Geophysical Research Institute**, Geophysical Research Institute (Council of Scientific and Industrial Research) Hyderabad-500007
- February **2015** "LEED Certification for Green Buildings" at Architecture Department, M S Ramaiah Institute of

Technology, Bangalore

Dec **2014** "Solar Passive Architecture" at AGDPRE – Teri University, Vasant Kunj, New Delhi

August **2014** "Sustainable Innovative Technologies in Architecture" **School of Built Environment and Development Studies (BEDS), University Of Kwazulu-Natal, Howard College Campus, Durban 4041, South Africa**

March **2014** "Energy Efficiency Strategies" at Faculty of Architecture, College of Engineering, Andhra University, India

March **2014** "Strategies in Green Building Design" at School of Architecture, GITAM University, Vishakhapatnam, India

February **2014** "Energy Conscious Architecture" at College of Architecture, Trivandrum, India

April **2017** Participation in excursion held by Professor Jurgen Breuste, Chair of Urban & Landscape Ecology at University of Salzburg, Austria on "**Tropical Landscape Ecology in Srilanka**"

November **2016** Global Initiative for Academic Networks (GIAN) workshop on '**Global Cities Sustainability and Management of the Urban Ecosystem**' held in the Dept. of Geography, Faculty of Natural Sciences, Jamia Millia Islamia, New Delhi - 1 to 5 November 2016

September **2015** Training program of Master Trainer organized by Bureau of Energy efficiency under the **United Nations Development Project - GEF project** "Energy Efficiency Improvements in Commercial Buildings" at MNIT Jaipur

May - June **2015** **NRDMS, DST Funded Training Programme** on "**Geospatial Technologies**" organized by Department of Geography, Jamia Millia Islamia

Nov -Dec **2014** 110 Orientation Program at **UGC** – Academic Staff College, Jamia Millia Islamia, New Delhi

May-July **2014** Summer Research Faculty Fellow at Indian Institute of Technology, **Indian Institute of Technology Delhi** (Project - Delhi Drainage Master Plan 2031)

February **2013** **INTACH** "Earth watch Fresh Water Volunteer day" held at Hauz Khas lake, New Delhi

June **2013** Building Sustainable Cities: Water Hazards Vulnerability Scenario in Dwarka– Scenario Building Workshop III organized by **School of Planning & Architecture**, New Delhi

July **2013** Building Sustainable Cities: Community Based Adaptation to water scarcity in Dwarka – Scenario Building Workshop II organized by **School of Planning & Architecture**, New Delhi

December **2012** Three Week Special Winter Program at **UGC** – Academic Staff College, Jamia Millia Islamia, New Delhi
January 2013

April **2012** Capacity Building of Women Managers in Higher Education at Sarojini Naidu Centre for Women's Studies, **Jamia Millia Islamia & UGC**

February **2011** QIP Short Term Course on Building Integrated Photovoltaic Thermal Organized by Centre for Energy Studies, **Indian Institute of Technology**, Delhi

December **2010** 3rd Annual Conference & Expo on Sustainable Urban Transport, Urban Mobility India – Accessible & Inclusive Cities organized by **Institute of Urban Transport** & Ministry of Urban Development, India

September **2010** International Workshop On "Sustainable & Climate Resilient Urban Development" The Rockefeller Foundation, **USA Department For International Development (DFID)**, India

**Certificates
/Training
Programs
Attended**

- January **2010** ACRECONF 2010 - Shaping the Future for Sustainable Tomorrow By **ISHRAE** (Indian Society for Heating , Refrigerating & Air-Conditioning Engineers)
- September **2009** Urban Habitat Summit An Alternative Urban Vision And Agenda Regarding Livability And Sustainability As Key Parameters For Success In The Development Of India's Cities organized by **Urban Habitats Forum C/o Mirabilis Advisory**
- March **2009** Planning, Design & Management of Engineering Services in Green Building Projects - Quality improvement program, **School of Planning & Architecture**, New Delhi
- September **2008** **Indian Green Building Congress** organized by Indian Green Building Council & Confederation of Indian Industries
- August **2008** **USAID ECOIII Project and ISHRAE Bangalore Chapter** Joint training course for Design Builder/Energy Plus, Bangalore Energy Simulation Training Workshop

Events Organized

- 2017** Co-coordinator **International Seminar on Water Pollution & Health** jointly organized by Jamia Millia Islamia & University College of London, UK at Jamia Millia Islamia, New Delhi 27th & 28th July 2017
- 2017** CO-chair **Technical Session "Geoinformatics in Forest Management"** during the National Conference on Geoinformatics for Natural Resource Management organized by Dept. Geography, Faculty of Natural Sciences, Jamia Millia Islamia, New Delhi, 7th – 8th February 2017
- 2017** Co-coordinator **International Workshop on Impact of water Quality on Human Health & settlements** jointly organized by Jamia Millia Islamia & University College of London, UK at Jamia Millia Islamia, New Delhi 6th April 2017
- 2017** Coordinator Sketching Workshop during the Annual Fest of Department of Architecture 21st – 24th March 2017
- 2016** CO-chair **International Workshop on Inclusive Cities** jointly organized by Dept. Architecture, JMI & San Diego State University, USA at Jamia Millia Islamia, New Delhi during 19th & 20th December 2016
- 2015** Organized Event on occasion of 84th Birth Anniversary of APJ Abdul Kalam, **Celebrating Kalam** at Faculty of Architecture & Ekistics, JMI
- 2014** Continuum 2014 – **Annual Student Exhibition** at 10th Foundation Day F/O Arch. & Ekistics, JMI
- 2014** Habib Rehman **Lecture Series** – II, JMI, New Delhi, India
- 2013** **V National Seminar** on Architecture for Masses, JMI, New Delhi, India
- 2013** Habib Rehman **Lecture Series** – I, JMI, New Delhi, India
- 2011** Landscape Journal **Exhibition** at Dept. Architecture, JMI
- 2011** **International Conference on Islamic Art & Architecture**, Faculty of Architecture & Ekistics, Jamia Millia Islamia, New Delhi, India

Workshops Organized

- February **2016** Organized **Student Workshop** on "Traditional Architecture of Kerala" at **Laurie Baker International School Of Habitat Studies** (LaBISHaS) An autonomous subsidiary of the Kerala State Nirmithi Kendra (KESNIK), Govt. of Kerala, KESNIK Campus, PTP Nagar, Thiruvananthapuram, Kerala
- February **2015** Organized **Student Workshop** on "Urbanization & Development in Bangalore" at Architecture Department, **M.S.Ramaiah Institute of Technology, Bangalore**
- February **2014** Organized **Student Workshop** on "Traditional Laurie Baker Brick Jali's" at **College of Architecture, Trivandrum**
- 2013** Organized **Student Workshop** on Green Buildings at **PHD Chamber of Commerce Conference**

Publication National Conferences

- February **2017** **National Conference on Geoinformatics for Natural Resource Management** organized by Dept. Geography, Faculty of Natural Sciences, Jamia Millia Islamia, New Delhi, 7th – 8th February 2017
- Paper Title – Sustainable Strategies to Mitigate Impact of Urbanization in Rural Settlements
- March **2014** Regional workshop on "**Water Conservation and Sustainable Management of Ground Water in National Capital Region**" organized by Central Ground Water Board, Government of India.
- Paper Title – "Sustainable Management of Water Resources at Jamia Millia Islamia University A Case Study" (Page No. 37-49)

- December 2013** **VII-WAC Universal Conference 2013, New Delhi**
- Paper Title-Water Resource modeling – A key theme to achieve zero discharge for proper water resource planning & Management “Jamia Millia Islamia – A Case Study”
- November 2013** **National Conference on Green Building & Rating Systems**
NCGBRS13 Lingaya’s University, Faridabad in association with Ministry of New & Renewable Energy
- Paper Title- Sustainable Future Energy Scenarios (Page No:23-30) **ISBN:978-81-924212-3-0**
- March 2016** **Ajman 4rth International Environment Conference, Smart Cities & Green innovation**
Organized By Municipality & Planning Department Ajman And Ajman University Of Science And Technology, UAE
- Paper Title - Energy Intensive Water Management to Achieve Zero Carbon Footprint – A Case Study in Semi-Arid Region, India
- November 2014** **International Conference on Changing Shape of Sustainable Development in India** by North cap (ITM) University, Gurgaon, India
- Paper Title: AN overview of Energy Conservation Act
- August 2014** **XXV World Congress of Architecture**
International Convention Center Durban South Africa – UIA 2014 Durban *Architecture Other where*,
- Paper Title- Analysis of Settlement Pattern and the Dynamics of Hydro Environmental Imbalance – Delhi as a Case Study (Page No: 385-407) **ISBN 978-0-86970-783-8**
- June 2014** **Singapore International Water Week, Water Convention - (Poster Presentation)**
- Poster Title: Feasibility & Design of Warehouse with reference to green Building Concept using Rain Water Harvesting System to Control Water Logging and Flooding with Soil Moisture-Semi Arid Region, Sonapat, India **(Poster No: 2800865)**
- April 2014** **3rd International Conference On “Sustainable Innovative Techniques In Architecture, Civil and Environmental Engineering”- SITACEE** at Jawaharlal Nehru University, New Delhi
- Paper Title - Climate Change & Urban Environments - International Laws & Treaties, Published in Journal: Global Sustainability Transitions: Impacts and Innovations (Page No: 138-146) **ISBN: 978-93-83083-77-0**
- March 2014** **17th Rinker International Conference / iiSBE Net Zero Built Environment 2014 Symposiums** (*Nature-Based Building Performance: Net Zero Energy, Water, Carbon, and Waste*, University of Florida, Gainesville, Florida USA
- Paper Title- Strategies for Demand Reduction for Net Zero Water Discharge– A Comparative Analysis of Jamia Millia Islamia (Page No:33-55) **ISSN No: 2373-7980**
- November 2011** **International Conference on Islamic Arts & Architecture, JMI, New Delhi**
- Paper Title- Islamic Gardens & their Derivations in Contemporary Landscape Design (Page No: 138-139) **ISBN:978-81-920315-1-4**
- November 2011** **International Conference on Islamic Arts & Architecture, Jamia Millia Islamia**
- Paper Title - Eco Mosque - an approach towards Islamic Green Roots

**Publication
International
Conferences**

**Publication
International
Journal**

- 2013 International Journal of Innovative Research & Development**
- Paper Title- Modeling For Water & Energy Conservation (A Case Study of Corporate Centre Escorts Pvt. Ltd. Faridabad, Haryana, **ISSN: 2278 – 0211** (Online) Volume 2 Issue 6, Page No. 600-620
- 2015 International Journal of Research in Engineering & Technology** (Communicated)
- Paper Title: Assessment of solar conditions to maximize energy efficiency & visual Environment at Nemrana University Campus, **ISSN 2321-8843** (Online)
- 2015 International Journal of Research in Engineering & Technology** (Communicated)
- Paper Title: Urbanization Impact on Rural Settlement and Sustainable Water Resource Development in Rural Areas – Balrampur as a Case Study **ISSN 2321-8843** (Online)

Publication

Accepted Abstracts

- National Conference on Geoinformatics in Natural Resource Management**, February - 2017
- Paper Title: Water Resource Management for Institutions to Develop Sustainable Green Campus

Singapore International Water Week June 2016

- Paper Title: Liveability & Resilience of Urban Settlements with Water Sensitive Urban Design– A Case of Yamuna Flood Plains in Delhi

WSSD-U- Cambridge 2016

- Paper Title: Campus Initiative for Sustainable Development in Jamia Nagar, New Delhi

IWA World Water, Brisbane 2016

- Paper Title: A Legal Perspective to Water Safety Planning and Human Health – A Case of Yamuna

World Water Week, Stockholm 2014

- Paper Title: Feasibility and Design of Rain Water Harvesting Master Plan for Ghaziabad - An Innovative idea for sustainable hydro environment and energy conservation through Replenishment of Water Resources & Management

Research

Articles

- 2014 **Delhi Water Scenario** - Amar Ujala (Newspaper)
- 2013 **Rainwater Goes Down the Drain** - Hindustan Times, Gurgaon (Newspaper)
- 2013 **Waste Energy Recovery Scenarios For Buildings, Precincts & Cities**, V-National Seminar on Architecture for Masses, JMI
- 2011 **Jamia Millia Islamia & Its Changing Façade** – Heritage Conservation & Urban Regeneration, IV-National Seminar on Architecture for Masses, in Jamia Millia Islamia
- 2007 **Strategies for Humane Settlement**, III-National Seminar on Architecture for Masses, Jamia Millia Islamia
- 2007 **Symbolism Or Sufism An Expression To Architecture**, “Verve” Magazine for faculty of Architecture & Ekistics Jamia Millia Islamia

Research

Reports

- 2014 **Report of Rain Water harvesting master Plan of Jamia Millia Islamia** as an innovative idea for comprehensive water management plan. JMI University
- 2013 **Integration of Renewable Energy into Architectural Facades** - Minor Project Report, Department of Energy & Environment - TERI University
- 2009 **LEED Resources & Sustainable Design Guidelines** - ECO3Design Project Guide, ECO3Design Consultants Pvt. Ltd.

Other Media

(News Channels)

- 2013 RWH Systems in JMI University – Documentary by AajTak
- 2013 Delhi fears water shortage as groundwater level hits dangerous low - Documentary India TV
- 2013 Global Warming & related rise in Sea Level and Water Quality-Documentary by India News

Architectural Project Works

1. Design of Annexure Building for **Centre for Languages & European Studies** at Jamia Millia Islamia.
2. **Shahjahanabad Redevelopment Corporation**, Government of Delhi, India - Monument Conservation for the restoration, illumination and site development
3. Design of **Indian Administrative Services Coaching Academy** at Jamia Millia Islamia.
4. **Dupont Knowledge Centre**, ICICI Knowledge Park, Hyderabad
Energy Simulation Model & Daylight Analysis
5. **Peninsula** - IT/ITES SEZ, Patancheru, Hyderabad
Sun Path Analysis, Renewable Energy Potential Assessment
6. **Gurgaon City Centre**, DLF City Phase V, Gurgaon
LEED Pre-Certification Documentation
7. **American Embassy School** - New High School Building, New Delhi
Energy Model, Daylight Model and documentation for LEED Green School Certification at USGBC. **(FIRST GOLD CERTIFIED LEED SCHOOL IN ASIA)**
8. **Royal Netherlands Embassy**, New Delhi - Renovations Under IGBC LEED NC
9. **SYMBIOSIS** Pune Campus - Wind & Solar Assessment Analysis
10. **NIIT Nemrana** University Campus - Daylight Simulation Analysis

Research Project Works

1. Coordinator Research & Development Project for **Ghaziabad Rainwater Harvesting Master Plan For GDA Area**. Under Principal Coordinator ship of Prf.Gauhar Mahmood, Dept. Civil Engineering, Jamia Millia Islamia.
2. Coordinator Research & Development Project for **“Assessment Of Impact Of Yamuna Water Quality On Ground Water Resources Of Its Surrounding Area In Jamia Nagar With Special Reference To Birth Of Mentally Retarded Children”** supported by a United Nations-mediated mechanism (via UNITAR-UNOSAT) (*under process*)

Guided Academic Thesis Projects

2010 – 2011

- Development of Commercial-Cum-Institutional Corridor, Guwahati
- Redevelopment of JMI University Campus, New Delhi
- Tourist Village, Allahabad
- Sports Museum, New Delhi

2011 – 2012

- Redevelopment of Rajghat Power House, New Delhi
- Centre for Chemical Attack Victims and War Veteran - Abassabad, Tehran
- Centre for Arts and Crafts - Purnea, Bihar
- Dilli Haat, New Delhi

2012 – 2013

- Design of REC- World Headquarters with Eco-Friendly Techniques, Gurgaon
- Agricultural Educational & Research Centre, Sultanpur District
- Wellness Resort, Dehradun

2013 – 2014

- Earth Architecture in contemporary scenario: innovations and potential of earth construction and architecture
- Redevelopment of Damdama Lake Tourist Spot
- Earth Architecture in contemporary scenario: innovations and potential of earth construction and Architecture
- Shopping Mall with Solar Passive Techniques
- Holistic upliftment centre, Sherpurkalan

2014 – 2015

- Aurofilm- Film and Research Institute, Gurgaon
- Jamia Medical College, Delhi
- Up gradation of Bulandshar Exhibition
- Mithila Painting Institute cum Museum, Madhubani
- Noida Habitat Centre, Noida

2015-2016

- War Memorial cum Museum, Punjab
- Eco Town Bio Electricity, Utraula, UP
- Kishangarh Airport Terminal
- Trade Facilitation Centre & Craft Museum, Varanasi

Guided Academic Dissertation Projects

2010 – 2011

Lighting Automation
Lighting Control in Intelligent Buildings
Building Automation System

2011 – 2012

Energy Management in Intelligent Buildings
Security System in Intelligent Buildings
Environmental friendly lighting
Green Buildings
Rain water Harvesting in Intelligent Buildings
Building Automation and Security System
Safety System in Institutional Buildings
Building Automation System

2012 – 2013

Central Heating System in Intelligent Buildings
Intelligent buildings : access control
Intelligent systems for water efficiency
Building intelligence and Energy Management
Energy Efficiency in Intelligent Buildings

2013 – 2014	Earthquake resistance architecture (earthquake behavior of buildings) Architectural glass façade system Intelligent lighting system Energy efficiency in building design Green roofs
2014 – 2015	Earthquake Resistance Building design Green Building requirements for water efficiency Intelligent systems for lighting design

Languages English, Urdu, Hindi