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**INSTRUMENTATION & CONTROLS IN BUILDINGS (BUILDING AUTOMATION)**  
Professor Mohd Islam; Professor Shahida Khatoon

**HVAC IN BUILDINGS; COLD STORAGES**  
Professor M. Emran Khan; Dr. Faizan Sherwani

**GREEN BUILDINGS**  
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**OTHER RELATED TOPICS**  
Professor Abid Haleem,Dr.Ali Hasan

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INTERNATIONAL CONFERENCE and EXHIBITION on  
**BUILDING UTILITIES**

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#### ABOUT JAMIA MILLIA ISLAMIA

Jamia Millia Islamia, an institution originally established at Aligarh in United Provinces, India in 1920 became a Central University by an act of the Indian Parliament in 1988. In Urdu language, Jamia means 'University', and Millia means 'National'. By a Special Act of the Parliament, Jamia Millia Islamia was made a central university of India in December 1988. Jamia Millia Islamia presently has around 19, 000 students, runs 220 courses. It has 38 departments of specialized education. It has 28 Centers related to different needs and importance. They built up Jamia Millia 'stone by stone and sacrifice by sacrifice', said Sarojini Naidu, the nightingale of India.

#### DEPARTMENT OF MECHANICAL ENGINEERING

The Department offers eight-semester Bachelor of Technology (B.Tech.) course with an annual intake of seventy, four-semester Master of Technology (M. Tech.) course with annual intake of 18 and Doctor of Philosophy (Ph.D.) in Mechanical Engineering. M. Tech. Program is offered in three broad areas of Mechanical Engineering namely Production-Industrial Engineering, Machine Design and Thermal Engineering. The department has a student population of about 560 at UG, 40 at PG and about 44 at doctoral research levels. In addition, it also offers four-year, Bachelor of Engineering (B. E) (Part-Time) program in the evening with an annual intake of 70 for working diploma holders to up-grade their knowledge and skill.

## TOPICS

#### BUILDING ARCHITECTURE

Aesthetics Of Green Building, Rainwater Harvesting, Energy Efficient Material For Building Facade, Net Zero Energy Building, Modern Trends In Auditorium Design, Services And Modular Construction, Swimming Pool Technologies, Mud And Bamboo Architecture, Acoustics, Lighting In Building Interiors, Tractive Technology (Elevators, Conveyors And Lift) Vertical Transportation, Interstitial Flows, Retrofitting, Services In Traditional/Vernacular Architecture, Adaptive Reuse Of Building, Large Span Structure, Waste Management In Hospitals, Disabled Friendly Architecture, Security Systems In Buildings, Automated Car Parking, Lighting In Landscape Architecture, Mathematical Modeling.

#### FIRE PROTECTION, PLUMBING & DRAINAGE SYSTEMS IN BUILDINGS

Causes And Spread Of Fire In Buildings, Safety Norms Of Buildings, Design Of Fire Escapes In High Rise Buildings, Staircase Pressurization, Wet/Dry/Deluge/Pre-action Sprinkler System, Wet Risers, Fire Alarm Systems, Fire Detection Systems, Fire Hydrants, Fire Pumps, Fire Tanks, Hose Reel Cabinets, Sprinklers, Car Parking Fire Protection, Fire Dampers, Fire Piping, UL, ULC Listing Of Fire Products, Fire Piping Joints And Accessories, Plumbing Design For Health Care Facilities, Energy And Resource Conservation In Plumbing Systems, Acoustics In Plumbing Systems, Water Treatment, Central Water Systems, Storm Drainage System, Cold Water Systems, Domestic Water Heating System, Vents, Water Reuse System, Fuel- Gas Piping System, Green Design In Plumbing System, Plumbing/Drainage Faults Solutions, Self Cleaning And Non-Scoring Velocities Of Drain Pipes.

#### INSTRUMENTATION & CONTROLS IN BUILDINGS (BUILDING AUTOMATION)

Power Back-Up In Buildings, Multi-Zone Electrical Unit, System Arrangement, Design Consideration For Electrical Installations, Overload Protection Systems In Buildings, Wiring Patterns, Selection and Installation of Sub-Stations, Internal External Electrification, Panel Design In Residential And Commercial Use, Building Management System, Façade Lights, Stadium Lighting, Light Flux Design Of Building Areas, Rated Electrical Load Of Building, Sensing And Automation Devices In Smart Buildings, SCADA In Smart Buildings, Earthing And Lighting Arrestor Commissioning, Protective Relaying, Switches And Circuit Breakers, Wi-Fi/Internet Provisions, CCTV/IP Camera Monitoring, Distribution, Service-Robotics, Home Automation Systems, Home Security Systems, Transmission & Installation Of Single Phase & Three Phase Supply System.

#### HEATING VENTILATION & AIR CONDITIONING (HVAC) IN BUILDINGS, COLD STORAGE

Evaporative Cooling, Indoor Air Quality, Active & Passive Buildings, Ventilation, Air Purification, Air Filters, HEPA Filters, Ducting Design, Chillers, Chilled Water Piping, 3-Pipe Systems, Hydronic System, Cooling Towers, Variable Refrigerant Flow, Variable Air Volume System, Dehumidifiers, Grills, Registers, Air Curtains, Air Handling Units And Fan Coil Units For Different Applications, Refrigerant Piping, Cooling/Dehumidification Loads, Water Filters, High Density Polyethylene (HDPE) Piping, Vapor Absorption System, Conventional/Non-Conventional Methods, Chilled Water And Condenser Water Pumps, Valves and Accessories, Solar Air-Conditioning, Montreal Protocol Implementation In Indian HVAC Sector, Cold Storages Controlled Atmosphere Cold Storages, Cold Storages For Dairy/Meat/Fruits And Vegetables, Present Norms Of Cold Storages In India.

#### GREEN BUILDINGS

Green Building Practices, Architectural Design Philosophy For Green Buildings, Green Building Materials, Affordable Green Buildings, Scoring Methodology Of Green Buildings or Certification, Use Of Waste In Buildings, Zero Discharge Concept In Green Buildings, Use Of Solar Technology, Thermal Energy Storage In Buildings, Future Prospects Of Green Buildings In India.

#### OTHER RELATED TOPICS

Green Tribology, Service Reliability and processing, Mechanism Design, Micro-channel applications, Mechanical/Civil/Electronics/Computer applications, Design equipments.



#### IMPORTANT DATES

- Call For Abstract : 10 March 2016
- Last Date Of Abstract Submission : 10 May 2016
- Confirmation Of Acceptance Of Abstracts : 20 May 2016
- Last Date Of Submission Of Full Length Paper : 30 July 2016
- Acceptance Of Draft Paper : 30 August 2016
- Final Paper Submission & Author Registration : 15 October 2016
- Conference Date : 1-3 December 2016



#### VENUE

Faculty of Engineering and Technology,  
Jamia Millia Islamia, Jamia Nagar,  
Okhla, New Delhi - 110025

#### CONTACT :

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Visit us at [www.icebu2016.com](http://www.icebu2016.com)

#### REGISTRATION DETAILS

Till 15 September		After 15 September	
Professionals	Students	Professionals	Students
For Indian Delegates (INR)			
6000	4000	7000	5000
For Foreign Delegates (INR)			
150	50	200	75

- For every registration, one conference material is FREE.
- Fee includes one lunch, two time Tea/Coffee.
- All payments shall be made by D.D./Cheque drawn in favour of "The Registrar, Jamia Millia Islamia, New Delhi.
- D.D. And Registration form should be sent through courier to Head, Department of Mechanical Engineering, Jamia Millia Islamia, New Delhi-110025
- Soft copy of D.D./Registration form should be sent to [icebu2016@jmi.ac.in](mailto:icebu2016@jmi.ac.in)