



# Department of Electronics and Communication Engineering Jamia Millia Islamia

Placement Brochure  
2017-18

# Vice Chancellor Speaks



Jamia Millia Islamia came into existence in 1920 through the tireless efforts of its founders and symbolizes the unflinching and resolute commitment of great visionaries in bringing about socio-economic transformation of common masses through the vehicle of education.

The mission of the founding fathers of this great institution should not only serve as a beacon light for all the stakeholders, but should also inspire us in making this university as one of the premier institutions of higher learning in the world. It should attain distinction in providing cutting edge learning experience, internationally benchmarked education, intellectual freedom and critical research opportunities in frontier areas of contemporary concern. The Faculty of Engineering and Technology was envisaged with the twin objectives of generating competent professionals and to keeping pace with the R&D activities in this dynamic field.

Jamia Millia Islamia has always been supportive of its student's creative ideas and proactive efforts to move ahead in all spheres. Therefore, I congratulate my students for their endeavor to reach out to the corporate world. This clearly sends out a positive signal to a potential employer that the students are eager to join them and ready to take the arduous route to success.

**Prof. Talat Ahmad**  
Vice Chancellor



# Why Recruit Us?

## Academic Rigor

- Selection criteria according to JEE norms ensures selectivity
- Strict theoretical and practical regime for four years
- Trainings and Internships to identify industry workflow
- Participation and wins in national and international competitions

## Infrastructural Superiority

- Air-Conditioned classrooms equipped with projectors
- Best and first-in-the-country laboratories like Apple Lab, Sun Microsystems Lab, Deep Learning Lab
- CIE Incubator that aids student start-ups
- M.A.K. Pataudi Sports Complex for indoor and outdoor sports

## Exposure and Excellence

- Various societies and collaborations to provide a platform to student activities
- Broadened perspective and holistic development due to university crowd exposure
- National and Inter-national exposure, well utilized.
- Students outperform the supposed best

## Cultural Inheritance

- Students inherit the vision of JMI's founding fathers and the cultural value that upholds the nation.
- Discipline and dedication above all else • Students not only inherit but also add value to this legacy
- There are no short-cuts to success, but success is never unreachable

# Faculty of Engineering and Technology

The Faculty of Engineering And Technology was established in 1985 with three departments viz. Department of Civil, Mechanical and Electrical Engineering. Keeping up pace with the changing times and the need of students, the faculty has expanded and now offers:

B.Tech course in:

- *Civil Engineering*
- *Mechanical Engineering*
- *Electrical Engineering*
- *Electronics and Communication Engineering*
- *Computer Engineering*

M.Tech course in:

- *Electrical Power System Management*
- *Mechanical Engineering(Machine Design, Thermal Engineering, Production and Industrial Engineering)*
- *Environmental Science and Engineering*
- *M.sc Electronics*
- *B.E evening courses in service Diploma Holders*
- *Full time and part time Diploma is also provided by University Polytechnic*
- *Distance program in power generation*

# Department of Electronics and Communication

- The Department of Electronics and Communication Engineering came into existence at the Faculty of Engineering and Technology in 1996, by the approval of All India Council Technical Education (AICTE), to meet the growing requirement of practical design engineers in the country and abroad. The primary objective of the department has been to impart quality education, training and research at the undergraduate and doctoral levels in various areas of Electronics and Communication Engineering with broad emphasis on the design aspects of Electronics and Communication Engineering.
- A strong positive reputation of the department pulls companies like SAMSUNG, SIEMENS, ADOBE and many more for the campus recruitment. Equipped with a powerful technical and practical skill set, our students get high ranking jobs and good start up salaries in both public and private sectors.
- The department runs two undergraduate courses- B.Tech and B.E (evening) program in Electronics and Communication Engineering.
- Our students are present at large numbers at IIM's, IIT's and NIT's and international presence can be seen in UK, Australia, Germany and Canada. Each year, a large number of students qualify GATE with high percentile.
- The department currently has research scholars working in the areas of Micro-Electronics & VLSI, Digital Signal Processing, Communication Engineering, Wireless Communication and Analog Signal Processing. The research scholars are required to attend course work before they actually start work on their problem.

# Course Structure

First Year	Second Year	Third Year	Fourth Year
<ul style="list-style-type: none"> <li>• Chemistry</li> <li>• Physics</li> <li>• English</li> <li>• Mathematics</li> <li>• Social Science</li> <li>• Engineering Mechanics</li> <li>• Basics of Electronics</li> <li>• Fundamentals of Computing</li> <li>• Thermodynamics</li> <li>• Basics of Electrical Engineering</li> <li>• Elements of Civil Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Mathematics</li> <li>• Analog Electronics</li> <li>• Circuit Analysis and Synthesis</li> <li>• Principle of Measurements and Machines</li> <li>• Logic Design</li> <li>• Digital and Electronic Communication</li> <li>• Signals and Systems</li> <li>• Electromagnetic Field Theory</li> <li>• Communications Systems</li> </ul>	<ul style="list-style-type: none"> <li>• Control Systems</li> <li>• Transducers and Intelligent Instruments</li> <li>• Active filters and Signal Processing</li> <li>• Computer Architecture</li> <li>• Digital Circuits and Systems</li> <li>• Data Structures and Computer Programming</li> <li>• Microprocessor and Applications</li> <li>• Digital Signal Processing</li> <li>• Antenna and Wave Propagation</li> <li>• Data Communication and Computer Networking</li> </ul>	<ul style="list-style-type: none"> <li>• Advanced Analog Signal Processing</li> <li>• VLSI Design</li> <li>• Wireless Communication</li> <li>• Digital Communication</li> <li>• Embedded Systems Design</li> <li>• Digital Image Processing</li> <li>• Communication Networks</li> <li>• Microwave Engineering</li> <li>• Optical Fibre Communication</li> </ul>
Labs			
<ul style="list-style-type: none"> <li>• Physics Lab</li> <li>• Chemistry Lab</li> <li>• Engineering Graphics</li> <li>• Workshop Practice</li> <li>• Engineering Mechanics</li> <li>• Civil Engineering Lab</li> </ul>	<ul style="list-style-type: none"> <li>• Analog Electronics</li> <li>• Logic Design</li> <li>• Circuit Simulation</li> <li>• Instrumentation</li> <li>• Communication Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Transducer</li> <li>• Active Filter and Signal Processing</li> <li>• Digital Circuits</li> <li>• Microprocessor</li> <li>• Digital Signal Processing</li> <li>• Seminar</li> </ul>	<ul style="list-style-type: none"> <li>• Advanced Analog Signal Processing</li> <li>• VLSI Design</li> <li>• Minor Project</li> <li>• Image Processing</li> <li>• Microwave Engineering</li> <li>• Major Project</li> </ul>



# Faculty at Department of Electronics and Communication



**Prof. Mainuddin**

*Professor, Head of Department*

**Mr. M. T. Beg**

*Professor*

**Dr. Dinesh Prasad**

*Associate Professor*

**Mr. Anwar Ahmad**

*Associate Professor*

**Dr. S. A. Loan**

*Associate Professor*

**Dr. S. A. Imam**

*Associate Professor*

**Dr. Neelofar Afzal**

*Associate Professor*

**Mrs Amber Khan**

*Assistant Professor*

**Dr. M. Nizamuddin**

*Associate Professor*

**Dr. Md. Waseem Akram**

*Assistant Professor*

**Dr. S. Intekhab Amin**

*Assistant Professor*

# Research Work

*The faculty and the students regularly publish research papers in referred to National and International journals with high impact factor including IEEE transactions on Electron devices, Physical review, Solid State Electronics, International journal of Nano-Manufacturing, Journal of Active and Passive Electronic devices and many more. Following offers a glimpse of some of the work being done in our faculty*

## Semiconductor Devices and VLSI VLSI Design

- VLSI architectures are fuzzy processors.
- New MOSFET structures including ground plane based MOSFET on selective buried oxide.
- High breakdown lateral BJT on SOI
- A new MC-CDMA converter with low power and reduced latency.
- NEW MOSFET and BJT structures employing Quantum tunnelling effects.

## Analog Circuits

- Extensive research is being carried out in filter design, current feedback circuits and oscillators.
- Design of a new devices using Current Feedback Operational Amplifiers including current Mode BiQuad filters, Voltage Control Oscillators and Analog Inverse filters.

## Communication and Networking

- Real time packet schedulers and desired QoS.
- Algorithms and Quality service evaluation for HSPDA.
- Design of novel antennas for wireless devices.
- Performance of security algorithms for wireless security.



# Achievements

- Alumni working in renowned companies like Intel Corporation, Cadence Design Systems, Qualcomm, Texas Instruments, STMicroelectronics, National Instruments and DRDO.
- We organized IEEE All India Student Congress in 2011 and IEE Delhi Student Section Congress in 2013.
- Organize various Techno-Cultural College Festivals every year on all India level like ENCOMIUM, TANGELO TOWN, ALGORYTHM.
- Successfully completed various courses at EDX of eminent universities like MIT, UC, Harvard.
- Many students cleared competitive examinations like GATE, CAT, including AIR 25 in GATE 2015.
- Some recent projects/papers acknowledged at various levels:
  - Email the smell (published in IEEE journal)
  - Optical flip flop on coupled laser diode
  - Performance evaluation of TGS 822-A practical approach
  - Edge detection on MATLAB and VLSI architecture of SOBEL EDGE
  - Palm print recognition
  - Software implementation of GSM security using C language and design of Verilog model for A5

# Student Achievements

- Surpassed various IITs & NITs in ROBOCON'17 and landed in the top 20.
- 2 students were selected for a 3 month internship at siemens (stipend of ₹1 lac/- each).
- Semifinalist in TIIC 2016 competition.
- First in Techkriti'16 IIT Kanpur: *image compression using discrete cosine transform* in Verilog hd.
- Presented research paper, "low power designing in VLSI chips" at ICACEA 2015, an international conference co-sponsored by IEEE.
- Consecutively winning the zonal rounds for Robotryst for the past 3 years.
- Winner of Enactus national competition (rookie league) 2016.
- National winners of Awim 2016 conducted by Maruti Suzuki.
- Selected for the Viterbi – India internship program-2014 for carrying out research at university of Southern California
- *Rotational Hand Movement Tracking System* project got shortlisted from approx. 1100 projects in the *Texas Instruments Innovation Challenge- India Analog Design Contest-2014*
- *Detection Of Early Stage Of Potato Rot In Cold Storage* project was selected in *Texas Instruments Innovation Challenge India- Analog Design Contest-2015*.

# Trainings and Internships



*Our Students have done internships in many reputed companies and organizations like :*

- Schneider Electric
- Delhi Metro Rail Corporation (DMRC)
- Defense Research and Development Organization (DRDO)
- Siemens
- TCIL
- Airport Authority of India
- Bharat Sanchar Nigam Limited (BSNL)
- Delhi Door Darshan
- Bhabha Atomic Research Centre
- Bharat Electronics Ltd. (BEL)
- NTPC
- CDot
- TATA Docomo
- Ericson India
- IISc Bangalore
- IIT Delhi
- IIM Ahmedabad
- IIIT Delhi
- IIM Lucknow



## Past Recruiters



# Our Alumni



**ZUHAIB KHAN,**  
CO FOUNDER,  
SHOPATPLACES.COM



**MOHD WASEEM,**  
PROJECT MANAGER  
THE CONTI GROUP



**VIKAS JAIN**  
CO FOUNDER AND BUSINESS  
DIRECTOR AT MICROMAX



**RAJEEV SAXENA,**  
SR VICE PRESIDENT LAVA  
INTERNATIONAL LTD



**RAGHIB KHAN**  
CO FOUNDER  
RNF TECHNOLOGIES



**SAUMITRA BHIDE**  
HEAD CISCO ASIA  
CISCO



**UPENDRA GIRI**  
CEO/FOUNDER  
ASTROWIX USA



**MOHIT KHATTAR**  
MD  
GODREJ



**VIKAS ANAND**  
IAS



**SYED ASIM ALI**  
PRESIDENT  
RELEGATE TECHNOLOGY



**SUNIL CHOPRA**  
Coo  
Calance Corp.



**HANIF QUERESHI**  
IPS



**MD AFROZ**  
GM  
DLF



**VIBHA GUPTA**  
SR. MANAGER  
SIEMENS



**ANSHU GUPTA**  
SENIOR DGM  
L&T



**SAJID KHAN**  
GEN MANAGER  
SCOTT WILSON



**RAJIV MAHAJAN**  
SR VICE PRESIDENT  
TEJAS NETWORK

# Contact Us

UNIVERSITY PLACEMENT CELL  
JAMIA MILLIA ISLAMIA  
Faculty of Engineering and Technology  
Maulana Ali Jauhar Marg, New Delhi-110025, India  
Email: [ecejmi2k18@gmail.com](mailto:ecejmi2k18@gmail.com)  
Phone: 011-269A9106

## Training And Placement Office

Dr. Z. A. Jaffery	+91-11-29944067 (Direct) +91-9868790325 (Mobile)	zjaffery@jmi.ac.in
Dr. Rihan Khan Suri	+91-9891195255 (Mobile)	rsuri@jmi.ac.in

## Teacher Coordinator

Mrs. Amber Khan	+91-9810076881	akhan1@jmi.ac.in
-----------------	----------------	------------------

## Student Placement Coordinator

Mayank	+91-9871266141	sr.mayank96@gmail.com
Raif Perwez	+91-9718023630	raifperwez37@gmail.com
Sarthak Bhagat	+91-9990625002	sarthakbhagat29@gmail.com
Neha Abraham	+91-9013235560	neha.abraham756@gmail.com
Aseed Usmani	+91-8447565410	aseedusmani@gmail.com