



PLACEMENT BROCHURE 2018-19

Department of Computer Engineering

Faculty of Engineering & Technology, Jamia Millia Islamia



Message From The Vice-Chancellor

Jamia Millia Islamia came into existence in 1920 through the tireless efforts of its founders, such as Shaikhul Hind Maulana Mahmud Hasan, Maulana Muhammad Ali Jauhar, Hakim Ajmal Khan, Dr. Mukhtar Ahmad Ansari, Jenab Abdul Majeed Khwaja and Dr. Zakir Husain. It symbolises the unflinching and resolute commitment of these great visionaries in bringing about socio-economic transformation of common masses, in general, and Muslims, in particular through the vehicle of education.

The University has been able to provide all its students an intellectually stimulating environment and has evolved a holistic approach towards teaching. 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. In view of the modern industry demands and ever dynamic nature of technological developments, the university is consistently upgrading its infrastructure, lab facilities and computer facilities.

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 endeavour 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. This will be mutually beneficial, both for students and companies, as companies will be getting quality talent on platter, whereas students will have more opportunities and a larger pool to choose from. I take this opportunity to extend a warm invitation to you to strengthen the University Industry Linkage.



Prof. Talat Ahmad,
Vice Chancellor

Our Standings

The recent rankings across various platforms are a clear indication of the quality of education and commitment of the faculty.



NIRF University Rank



NIRF Engineering Rank



Quacquarelli Symonds (QS) World University Ranking



Times Higher Education World University Rankings 2018

ACADEMIC CURRICULUM

Undergraduate

- All **first year** undergraduate students are required to compulsorily **complete basic science and humanities courses**.
- **Second year onwards**, students **specialise** in their respective departmental studies. Students need to score a minimum number of credits to advance to the next year. Years 2 and 3 of education are in depth studies of core subjects, though students may opt for non-core electives.
- **Fourth year** students are expected to focus on **research work, and complete major and minor projects**.

Humanities Courses

FET realises that an education is more than specialised domain knowledge, and hence **encourages** students to take various **non-technical courses** to help them grow as well - rounded individuals, and simultaneously prepare them for life after college.

Such courses are:

- Communication Skills
- Human Resource Management
- English
- Other language courses as part of CBCS

Masters

- Post Graduate curriculum focuses on the *specialisation* in the department.
- Each department has *different credit requirements*.

Choice Based Credit System

Introduced in 2015, the system provides students an opportunity to opt for subjects that are outside of their core education, and that they feel suited for. CBCS encourages *diversification* among students.

Mandatory Industrial Training

Recognising that students need first hand experience in their chosen careers, Faculty of Engineering and Technology has made Industrial Training compulsory for most undergraduate courses. Students are required to work in their respective fields for a *minimum of 4 weeks* to earn relevant credits.

Department Of Computer Engineering

The Department of Computer Engineering was started in the year 2000. Initial years of the department were turbulent as the department faced a unique problem of high attrition rate. But since then the department has kept on evolving itself and now has become one of the leading departments at the Faculty of Engineering & Technology.

The Department also runs the Ph. D. program successfully, under which a number of research scholars are working in the fields of Networking, Data Mining, and Artificial Intelligence etc. The Department of Computer Engg is also an institutional member of the Computer Society of India, and had opened a students' chapter which successfully conducts an annual cultural cum technical fest ' AlgoRhythm ' and various other events throughout the year. We also have a Linux user group here at the department which is also actively making efforts to improve the students' skills in the field of Linux.

Course Intake :

- B. Tech Computer Engineering 70 Seats
- B.E. Computer Engineering, Evening Program 70 Seats
- M. Tech Computer Engineering 18 Seats



- To carry out leading research in all the areas of Computer Science & Engineering.
- To train and prepare the students for taking up leading jobs in industry and academia.
- To carry out collaborative research with the leading industries.

OUR MISSION

WHY RECRUIT US ?

Academic Rigour	Infrastructural Superiority	Exposure	Cultural Inheritance
<ul style="list-style-type: none">• Selection criteria according to JEE norms ensures selectivity.• Strict theoretical and practical regime for 4 years.• Trainings and Internships to identify industry workflow.• Participation and wins in national and international competitions.	<ul style="list-style-type: none">• Air Conditioned classrooms with projectors.• Best and First In Country Apple Lab, Sun Microsystems Lab, Deep Learning Lab.• CIE Incubator that aids student startup.• M.A.K. Pataudi Sports Complex for indoor and outdoor sports.	<ul style="list-style-type: none">• Various societies and collaborations to provide a platform to student activities.• Broadened perspective and holistic development due to university crowd exposure.• National and International exposure well utilised	<ul style="list-style-type: none">• 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.• We believe that there are no shortcuts to success, and it is always reachable.

ACHIEVEMENTS

ACM ICPC

95th rank in Asia Region Kolkata-Kanpur Site

SMART INDIA HACKATHON

10 Teams were
selected
for the on-site finals

FINANCIAL HACKATHON

Second Position at
Consilium Fest at NSIT

ENACTUS

National winners in the
Rookie League

ISRO

Official Project Partner
for in-house spam
classifier to be used
By ISRO

DELOITTE AWARD

Awarded the Deloitte
Award for Innovation



Research Works

Research projects can be used to further a student's research prowess to prepare them for future jobs or reports. Students here are actively involved in research projects and have also published papers in prominent journals.

- **Developing a Framework for Cloud Database Management System.**
- **Automatic Test Data Generation for Data- Flow Testing Using Nature Inspired Evolutionary Meta-Heuristics Genetic Algorithm .**
- **Efficient Mining of Data in Distributed Database.**
- **NumPy implementation of Batch Normalization and Batch Renormalization (acknowledged by Andrej Karpathy at Stanford University)**
- **Breaking an Image encryption scheme based on chaotic synchronization problem**
- **Automation of MeSH annotation of medicine**
- **Breaking Hyper-chaotic System Approach to Image Encryption**
- **Deep Learning for Cancer Genomics**
- **Techniques for feature matching and robust Homographic Estimation in Multi-Camera based Object Tracking Surveillance System.**
- **Classifying, Modelling and Mitigating Attacks in Wireless Ad-hoc and Sensor Networks**
- **Feature Sentiment Diversification of User Generated Reviews**



Projects

- *Attendance Manager* - currently being implemented in Dept of Computer Engg, Jamia Millia Islamia.
 - a new system of marking attendance electronically and storing them in a central database
 - includes a web interface and a mobile app (Android)
 - currently in Beta testing phase in Computer Engineering Dept
- Education portal for colleges connecting lecturers to students
- Making Instrumental Music (deep learning and reinforcement learning)
- Developed Document Notarization application using Ethereum Blockchain and IPFS(Interplanetary file system) as storage mechanism.
- A multi-threaded chat platform built in with sockets

- Tracking fake news via language processing- (semantic analyzer)
- Alexa Calculator App
- Centralized Wireless Home Appliance Control through IOT
- Emulation of AMBA 3 AHB-Lite Protocol Emulator
- Blind Navigation System using Computer Vision

Training and Internships

The students take up various technical trainings and internships with different organizations (both private and public) so as to enhance their skills and to have a first-hand experience in the industry.

Some of these organizations include :



- IIT Patna
- IIIT Delhi
- Blue Sapling
- Study Marvel
- Bharat Electronics Limited

- Coding Ninjas
- CIE - JMI
- Global Logic
- Komhar
- Multiple Startups
- DRDO

- The students are also actively involved in online coding competitions on platforms like CodeChef, Codeforces, HackerRank, TopCoder, SPOJ etc. to hone their skills.

Open Source Contributions

The fraternity of computer engineers from Jamia Millia Islamia comprises a huge number of Authors, Owners, Maintainers, Contributors and Community Members.

Some of the OpenSource projects that we've contributed to include :

- Apache
- Amahi
- OpenMFHoneypot
- Microsoft Powershell
- NuGet Package Explorer
- DjangoGirls Tutorial
- Socratic Mathsteps
- Microsoft UWP
- Facebook React
- NodeJS
- ShellJS
- FreeCodeCamp
- Leaflet
- JetBrains Kotlin Website

Course Structure

Year 1

- Chemistry
- Physics
- English
- Mathematics
- Social Science
- Engineering Mathematics
- Basics of Electronics
- Fundamentals of Computing
- Thermodynamics
- Basics of Electrical Engineering
- Elements of Civil Engineering

Labs

- Physics
- Chemistry
- Engg. Graphics
- Workshop
- Eng.. Mechanics
- Civil Engineering Lab

Year 2

- Data Structure and Programming
- Digital Logic Theory
- Discrete Mathematics
- Analog & Digital Comm.
- Mathematics
- Computer Organization
- System Software
- Operating System
- Database Management System
- Numerical Analysis and Computer Programming

Labs

- Computer Programming Lab
- Data Structure and Prog.
- Digital Logic Lab
- DBMS Lab
- Linux Fundamental Lab
- Operating System Lab

Year 3

- Computer Architecture
- Automata Theory
- Microprocessor
- Object Oriented Prog.
- Computer Network
- Software Engineering
- Compiler Design
- Embedded System
- Internet Protocols
- Analysis And Design of Algorithms

Labs

- OOP Lab
- Microprocessor Lab
- Computer Networks Lab
- Compiler Design Lab
- Embedded Systems Lab

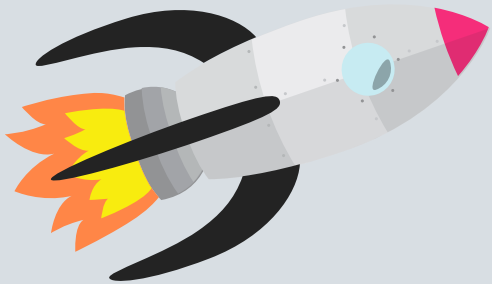
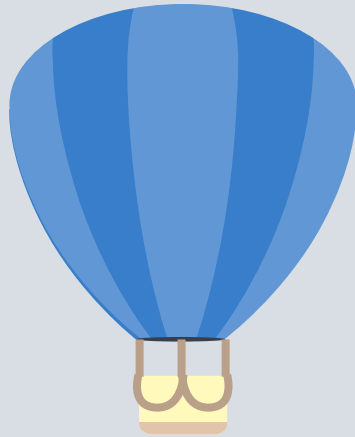
Year 4

- To Be Filled up on Monday after Tanvir sir provides it.

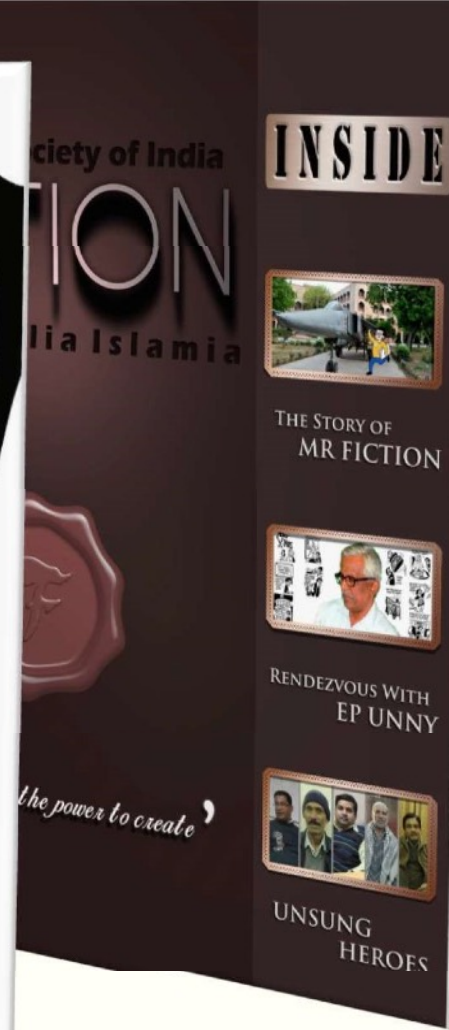
Labs

-

We Celebrate



We Express



The Extra-Curricular Life



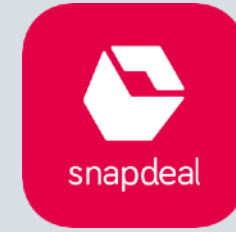
Enactus JMI - Top 24 among all the Enactus Teams in India



Won the Nukkad Natak Competition held by HRD ministry in Gurugram

Band Night organised at the College fest.







Vikas Jain
Co-founder of
Micromax



UPENDRA GIRI
CEO/FOUNDER
ASTROWIX USA



MOHIT KHATTAR
MD
GODREJ



Faheem Akhtar
Adobe



SYED ASIM ALI
PRESIDENT
RELEGATE TECHNOLOGY



SUNIL CHOPRA
Coo
Calanice Corp.



Yash Dhingra
Microsoft



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



Amit Khanna
Microsoft



Sanika Kulshreshtha
Adobe



TARANPREET
MANAGER
VODAFONE ESSAR



FARHAN SHABIR
MANAGER
HARLEY DAVIDSON



Asheesh Varshneya
Microsoft



Vivek Gupta
Adobe



SALABH ARAN
DIRECTOR
AVAN PROJECT PVT LTD



AMIT BHARDWAJ
ASST DIRECTOR
MINISTRY OF MINES



ZEESHAN ARFEEN
PARTNER
HEAD STRONG



NARENDRA KUMAR
PROJECT MANAGER
DLF



RIYAZUDDIN
SR. MANAGER
DELL



Zuhaib Khan, Co-founder,
shopatplaces.com

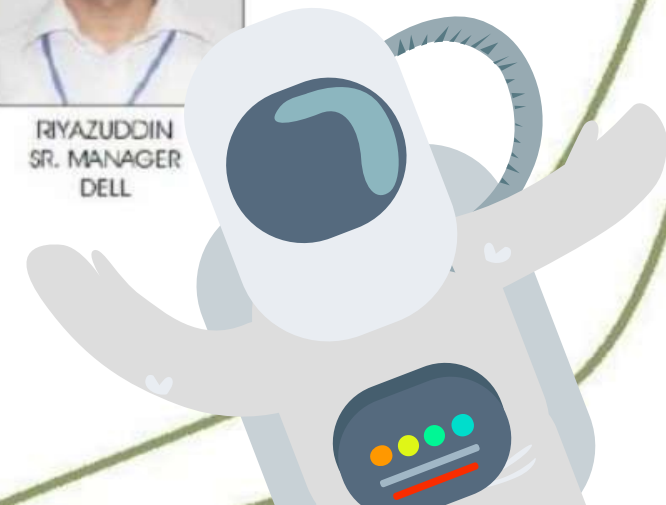


Mohd Waseem, Project
Manager, The Conti Group

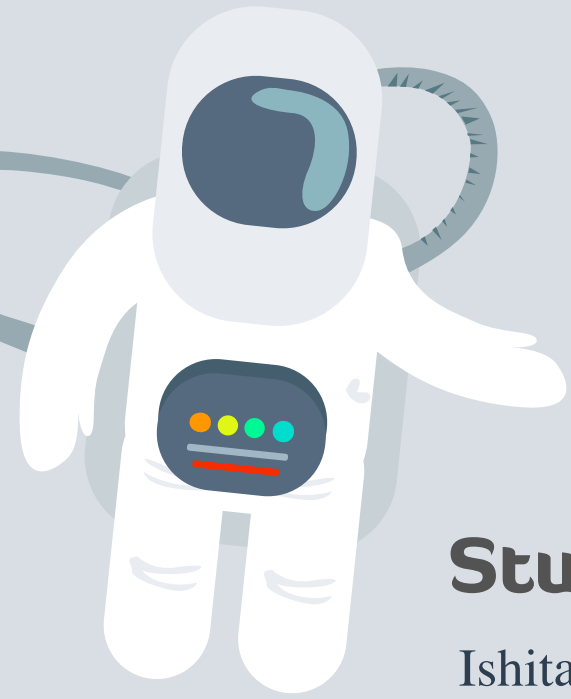


Raghiv Khan, Co-founder,
RNF Technologies

Our Alumni



The Team



Dr. ZAINUL ABDIN JAFFERY
Hony. Director
Training and Placement Office
Jamia Millia Islamia, New Delhi – 110025
Contact - +91-9868790325, 011-26989106
Email – zjaffery@jmi.ac.in

Dr. RIHAN KHAN SURI
Training and Placement Officer,
Training and Placement Office
Jamia Millia Islamia, New Delhi – 110025
Contact - +91-9891195255
Email – rsuri@jmi.ac.in

Student Coordinators

Ishita Tripathi	+91-9711474482	sakurakhadag@gmail.com
Kritika Gupta	+91-9560134005	kg9810@gmail.com
Nabeel Javed	+91-8285826851	nabeel9605@gmail.com
Saliq Saifi	+91-9690755259	saliq.saifi200997@gmail.com
Shivanshu Chaudhary	+91-9911940295	shivanshuchaudhary97@gmail.com