



PLACEMENT BROCHURE 2017-18

Department of Computer Engineering
Faculty of Engineering & Technology, Jamia Millia Islamia



MESSAGE FROM THE VICE-CHANCELLOR

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.

While the University has come a long way since its inception, it has to keep pace with the changing needs and expectations of the society. It has to successfully perform the multiple roles of creating new knowledge, acquiring new capabilities and producing an intelligent human resource pool for the promotion of economic growth, cultural development, social cohesion, equity and justice.

In view of special status of Jamia Millia Islamia in our country, we need to deliberate upon reconstituting the academic programmes through introduction of Choice-based Credit System, discuss suitable examination and administrative reforms and consider use of international benchmarks, such as Citation index, Journal Impact factor etc. for evaluating the quality of our research. I also exhort all the faculty members to formulate research project proposals either singly or in collaboration with other researchers of this or other institutions for financial support by the national and international funding agencies.

Apart from strengthening the teaching-learning process, research and extension programmes, special focus on extracurricular, sports and other similar activities to foster global competencies among the students is our priority.



Prof. Talat Ahmad,
Vice Chancellor

ABOUT 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 has been working towards placements of its students very diligently. We were fortunate enough to get an accreditation from TCS. With the visit of other companies, most of the students of the department have got placed. Companies like Microsoft, HSBC, HCL, HP, Adobe, Arricent, Accenture, BirlaSoft, NewGen etc have visited the department for campus selection in the past few years.

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

New Postgraduate Programs – The Department is looking forward to start a Masters program and have collaborative research with industry on joint projects along with making constant efforts to improve the quality of placements to the students. We have also been approached by leading companies like Adobe, for collaborative projects.

Academic Rigour

- 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 inter-national 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 startups
- M.A.K. Pataudi Sports Complex for indoor and outdoor sports

WHY RECRUIT US?

Exposure & 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



✓ ACADEMIC RIGOUR

The selections to the B. Tech. programme in JMI are now made in accordance with the cut-offs in the Joint Entrance Exam (JEE). The cut-offs are relatively high and ensure that the best minds get together.

The selection to the M. Tech programme in JMI are now made in accordance with the cut-offs in the JMI Entrance Examination.

Previously, the JMI Engineering Entrance Exam was an independent test in which more than 70000 students competed for nearly 350 seats.

OUTSTANDING ACHIEVEMENTS

- **ACM ICPC** – Students were India Finalists
- **SMART INDIA HACKATHON** – Three teams made it to the top 8. One winner and one runner-up.
- **DELOITTE AWARD** – The students were awarded the Deloitte award for innovation
- **ENACTUS** – National winners of the Rookie League

- **IncubateX HACKATHON** – Students won the third prize at this Hackathon
- **MAGICBRICKS HACKATHON** – The students were awarded for presenting the most innovative idea
- **FINANCIAL HACKATHON** – Second position at Consilium Fest at NSIT Delhi.
- **HackBPIT** – Winners of this Hackathon



RESEARCH WORK UNDERTAKEN

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.

B. Tech.

- **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-related research papers**
- **Breaking Hyper-chaotic System Approach to Image Encryption.**
- **Data Regression Model Generation and Analysis for a hypothetical "smart" hypermarket.**
- **A Contemporary Image Encryption Approach Pertinent to Particle Swarm Optimization**
- **Deep Learning for cancer genomics**
- **Shortest Path Algorithms for Social Network Strengths**

RESEARCH WORK UNDERTAKEN

M. Tech.

- **Designing improved chaotic maps for used in security application.**
- **Techniques for feature matching and robust homographic estimation in multi-camera based object tracking surveillance system.**
- **Word sense disambiguation in scarce resource language.**
- **Accelerate TB diagnostic using deep learning technique in chest radiography.**
- **Large scale recommendation systems and graph analysis for unstructured big data.**
- **Energy efficient communication in wireless sensor network.**
- **Classifying, modelling and mitigating attacks in wireless Ad-hoc and sensor network.**
- **Feature Sentiment Diversification of User Generated Reviews.**

OPEN SOURCE CONTRIBUTION

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

Some of the important products which they have contributed to are as follows –

- 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

1st YEAR

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

LABS

- Physics Lab
- Chemistry Lab
- Engineering Graphics Lab
- Workshop Practice
- Engineering Mechanics Lab
- Civil Engineering Lab

2nd YEAR

- Data Structure & Algorithms
- Discrete Mathematics
- Operating Systems
- Digital Logic Theory
- Computer Organization
- Electronic Devices & Applications
- Signals & Systems
- Digital & Analog Communication
- Fundamentals of IT
- Engineering Mathematics
- NACP
- System Software

LABS

- C Programming Lab
- Electronic Devices Lab
- Digital Logic Lab
- Linux Lab
- Data Structures Lab
- System Software Lab
- Advance C Lab

3rd YEAR

- Computer Architecture
- Automata Theory
- Computer Networks
- Data Base Systems
- Microprocessors
- Operating Systems
- Computer Graphics
- Software Engineering
- Object Oriented Programming
- Analysis & Design of Algorithms
- Parallel & Distributed Systems
- Language Processors

LABS

- Advanced Data Structures Lab
- DBMS Lab
- Operating Systems Lab
- Microprocessors Lab
- Computer Networks Lab
- Object Oriented Programming Lab
- Linux Utility Lab

4th YEAR

- Internet Fundamentals – Elective
- Management Science
- Language Processor
- Mobile Communication – Elective
- Data Mining – Elective
- Embedded Systems – Elective
- Artificial Intelligence – Elective
- Software Project Management
- Distributed Processing – Elective
- Network Security – Elective
- Soft Computing Techniques – Elective
- Web Mining – Elective

LABS

- Computer Graphics Lab
- Compiler Design Lab
- Minor Project
- Software Project Management Lab
- Major Project

COURSE STRUCTURE

Semester – 1

- Algorithm Design
- Advance Computer Architecture
- Advance Database Management Systems
- Cryptography and Network Security
- Data Communication and Computer Network

LABS

- ADBMS Lab
- Algorithm Lab

Semester - 3

- Machine Learning and Information Retrieval
- Image Processing

LABS

- Information Retrieval Lab
- Seminar
- Minor Project

Semester - 2

- Data Mining
- Parallel Computing
- Soft Computing
- Mobile Computing
- Intelligent Systems

LABS

- Data Mining and Prolog Lab
- Advance Computing Lab

Semester – 4

- Dissertation



✓ INFRASTRUCTURAL SUPERIORITY

Jamia Millia Islamia boasts of a huge and equally well-equipped campus that provides its students all the state-of-the-art facilities that they need for academics as well as co-curricular activities.

FET-JMI boasts of several such laboratories that can facilitate world class research. Till date, only a select few colleges have such laboratories.

INFRASTRUCTURE



✓ BASKETBALL COURT

✓ LAWN TENNIS COURT



✓ CRICKET STADIUM

✓ LUSH GREEN CAMPUS



GW

INFRASTRUCTURE



- ✓ AIR-CONDITIONED CLASSROOMS WITH PROJECTORS
- ✓ SOFTWARE PROGRAMMING LAB
- ✓ APPLE LAB
- ✓ SUN MICROSYSTEMS LAB
- ✓ COMPUTER CENTRE





✓ CULTURAL INHERITANCE

The birth of Jamia Millia Islamia was in itself a landmark in the cultural history of India. Its founders had the vision to create an educational institution that stood for a plural nationalism, that emphasized teaching in India languages, that rejected both sectarianism and indiscriminate westernization as a durable basis for Indian education.

WE CELEBRATE


Faculty of Engineering & Technology, Jamia Millia Islamia
presents
SPRING FEST JAMIA '13
24TH-26TH MARCH

A Collaboration Of


In Association With
Center of Innovation and Entrepreneurship (CIE)

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IEEE JAMIA MILLIA ISLAMIA PRESENTS
ENCOMIUM '16
APRIL 2016

CULTURAL

WOMEN EMPOWERMENT
SOLO DANCE
SOLO SINGING
NUKKAD NATAK
AD MAD
QUIZ WHIZ
WHO DARES WIN
THE ULTIMATE DEBATE
MR. & MS. ENCOMIUM
CHESS COMPETITION
DJ HUNT
OPEN ART

JUGAADU
FUTSAL
GULLY CRICKET
FASHION SHOW
ENCO NIGHT

VENUE
FACULTY OF ENGINEERING & TECHNOLOGY, JAMIA MILLIA ISLAMIA, NEW DELHI-110025

 
Sponsored by

algorhythm '13
annual techno-cultural fest of CSI - Jamia Millia Islamia
8-10 March
fb /jmi.algorhythm

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by Garbage Bin
cultural events

WE EXPRESS





✓ EXPOSURE AND EXCELLENCE

Being centrally located, Jamia Millia Islamia has a host of great environments to get involved in and a great number of collaborations that helps students realize that there's an entire world of opportunities that runs in synchronization with college.

EXPOSURE

- Jamia is centrally located in the National Capital and provides unfathomable opportunities and exposure to a wide variety of groups, societies and meets which are an enriching experience
- The faculty itself has student chapters of renowned national and inter-national educational societies. Some of these chapters include –
 - Computer Society of India (CSI)
 - Institute of Electrical and Electronics Engineers (IEEE)
 - American Society of Civil Engineers (ASCE)
 - Robotics Society of India (RSI)
 - Indian Society for Technical Education (ISTE)
- Seminars, guest lectures and talks are conducted on a regular basis by these societies and eventually lead to a greater know-how of things beyond college

PAST RECRUITERS

Microsoft

TVS



Arcent

JABONG



accenture
High performance. Delivered.

Infosys



snapdeal

HSBC



TRIDENTGROUP

ThoughtWorks

HCL

Directi
Intelligent People. Uncommon Ideas.



TATA CONSULTANCY SERVICES



QUALCOMM

Mahindra
COMVIVA

Zillious

PayU

mroads

BELZABAR SOFTWARE



NEWGEN

OUR ALUMNI



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
Calanoe Corp.



Yash Dhingra
Microsoft



MD AFROZ
GM
DLF



VIBHA GUPTA
SR. MANAGER
SIEMENS



ANSHU GUPTA
SENIOR DGM
L&T



SAJID KHAN
GEN MANAGER
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Amit Khanna
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Sanika Kulshreshtha
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MINISTRY OF MINES



ZEESHAN ARFEEN
PARTNER
HEAD STRONG



NARENDRA KUMAR
PROJECT MANAGER
DLF



RIYAZUDDIN
SR. MANAGER
DELL



Zuhair Khan, Co-founder,
shopatplaces.com



Mohd Waseem, Project
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