



PLACEMENT BROCHURE

2025-26

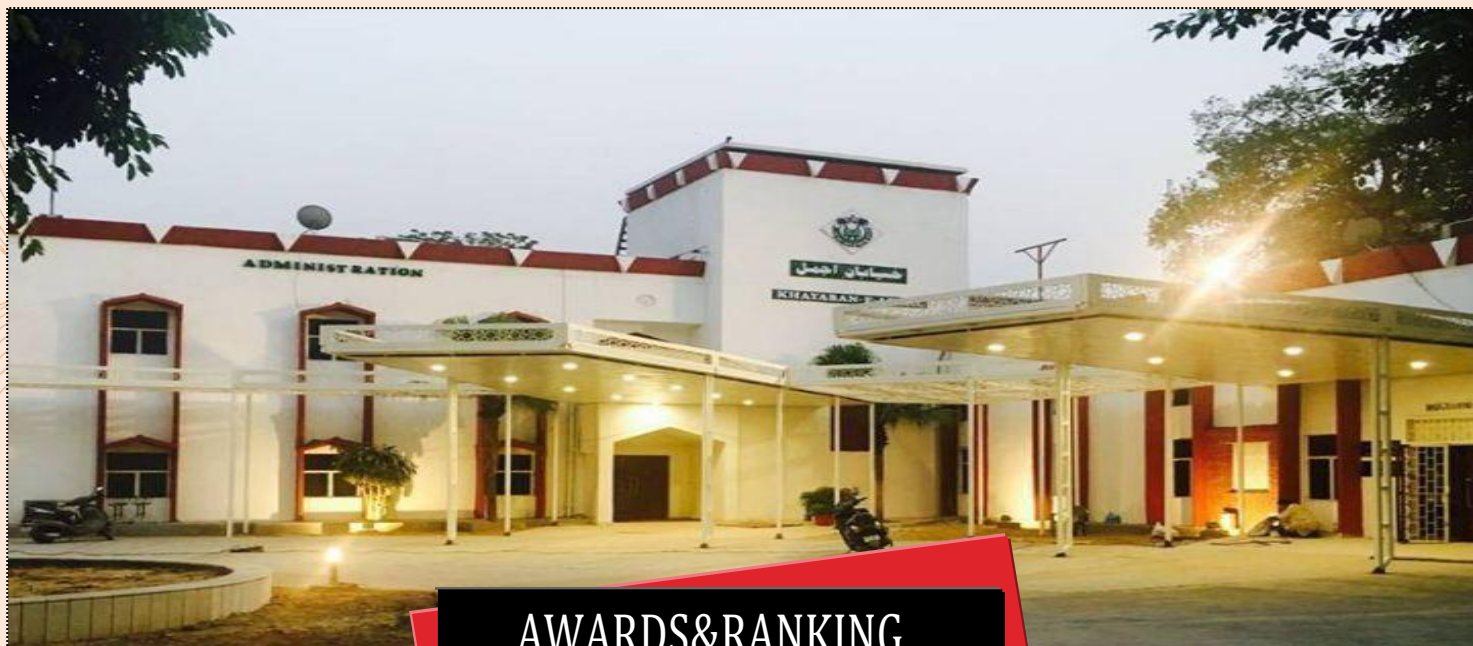
ABOUT JAMIA MILLIA ISLAMIA (JMI)

JAMIA MILLIA ISLAMIA is one of the prominent Central Universities in India. It has created a niche of its own in the academic world and is known for its quality teaching and cutting edge research. It has been accredited with “A++” Grade by UGC NAAC and it has bagged 1st Rank among all the central universities in the country in the Ministry of Education ranking with a score of 90% and JMI was also featured in the top ten list of National Institutional Ranking Framework (NIRF) 2021 released by HRD Minister earlier this year.

Jamia Millia Islamia was founded at Aligarh in 1920 during the Khilafat and Non-Cooperation movement in Gandhiji's response to boycott government call to supported educational institutions. The institution continues to reflect the original concern of its founders of encouraging the indigenous roots of education. True to the ideal of the founders, it has over the years tried to integrate the physical and mental development of its students. Jamia was made a central university by an act of Indian parliament in 1988.

Jamia seeks to foster a national cosmopolitan perspective in its academic programs as well as in co-curricular activities. The objective of the university is to disseminate advanced knowledge and provide instructional and research extension facilities in various branches of learning.

Today, Jamia Millia Islamia, with more than 17000 students, 800 full time faculty teachers, 9 faculties, 39 departments, 30 centers and over 200 courses, is one of the most prominent, promising and culturally diversified Central Universities in the country. The university has a thriving intellectual community of students and staff and is committed to the trans-formative power of education and research. It tries to foster a national cosmopolitan perspective in its academic programs as well as in extra curricular activities, encouraging students to think as global citizens.



AWARDS & RANKING



Grade A++ Score: 3.61
NAAC 2021, Cycle 2



QS Asia University
Ranking 2022



QS Asia University
Ranking 2021



JMI Ranked 6th among all
universities in
India (MHRD-NIRF 2021)



JMI Ranked 13th in
overall Categories in
India (MHRD-NIRF 2021)



JMI Ranked 7th
in India



JMI Ranked in 601-800 bracket
among Universities of the World
(Times Higher Education 2022)



JMI Ranked in 751-800 bracket
among Universities of the World
(QS World Ranking 2022)



JMI Ranked in 751-800 bracket
among Universities of the World
(QS World Ranking 2021)

CAMPUS AMENITIES

CENTRAL LIBRARY

The students of MTech have full-fledged access to one of the best managed libraries in the city, the Central Library of Jamia, stocking a rich collection of over 3.28 lakh books and bound volumes of periodicals, about 2500 manuscripts, 200 microfilms, and subscriptions to 440 journals in all major disciplines, the University Central Library caters to the academic needs of the University students, staff & research scholars.

The library has fully computerized its most actively used collection, which is now available to users through OPAC (Online Public Access Catalogue) with network access across the campus-wide LAN.



ENGINEERING LIBRARY

The Engineering Library fosters intellectual growth and advances the mission of Engineering by supporting excellence and innovation in education and research, managing and delivering information, and partnering to develop and disseminate new areas of engineering studies. The Engineering library is equipped with a diverse collection of books and business journals to keep the students updated and well informed with the latest developments and changes in the corporate world.

COMPUTING FACILITIES

The students of Engineering have access to state-of-the-art computing facilities supported by an array of peripherals such as high-speed internet connectivity, laser printers, copiers and scanners. The computers are equipped with various management information system software to provide better clarity and comprehensive training of management concepts to the students.



SEMINAR HALL

The institute has a well-equipped, fully air-conditioned seminar hall with complete audio visual facilities for conferences, guest lectures, meetings and corporate interactions. It has been the venue for numerous industrial interactions, brainstorming sessions and insightful learning experiences.

CAMPUS AMENITIES

M.A. ANSARI AUDITORIUM

The Ansari Auditorium is Jamia's one-stop destination for all cultural activities. With a seating capacity of more than 500, the Ansari Auditorium has played host to a myriad of lectures by eminent speakers, annual fests, theatrical performances and film festivals.



CAFETERIA FACILITIES

With several cafeterias in the campus, students have multiple hangout spots to choose from. The cafeterias provide hygienic food at reasonable rates. They are popular hangout spots for the students and serve as a platform for interaction among students from different disciplines.

SPORTS AND HEALTH FACILITIES

Jamia Millia Islamia has long been known for promoting sports and games among the student youth. The Jamia Sports Complex is the center for all sports activities of the University. Jamia offers world class sports facilities and equipment for sports including badminton, cricket, football, hockey, basketball, table-tennis, boxing, handball, athletics, shooting, etc. Jamia offers special concessions and relaxation in admissions to outstanding sportspeople. The University boasts of the Bhopal Cricket Ground that has been the center stage for events like the Women's Cricket World Cup and has produced stalwarts like Bishen Singh Bedi and Virender Sehwag.



HOSTEL FACILITIES

The University has a number of fully furnished hostels for both men and women. There are seven hostels for men and six for women. The hostels provide facilities such as 24-hour internet facility, library, common room, recreation room, playground, RO purifiers, dining hall, 24-hour power-backup, telephone facilities, etc.

Students from diverse cultures and ethnic backgrounds live together, thus creating a strong base of values and integrity among the students.

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VICECHANCELLOR'S MESSAGE



Dear Recruiters,

It gives me immense pleasure to invite you to the placement process of the M.Tech (Computational Mathematics) offered by the Department of Applied Sciences & Humanities, Faculty of Engineering & Technology, Jamia Millia Islamia.

Jamia Millia Islamia made a modest beginning in 1920 at Aligarh, with the resolute determination of its founding members--Shaikhul Hind Maulana Mahmud Hasan, Maulana Muhammad Ali Jauhar, Jenab Hakim Ajmal Khan, Dr. Mukhtar Ahmad Ansari, Jenab Abdul Majeed Khwaja, and Dr. Zakir Hussain to create an institution that would manifest indigenous ethos and spirit of plurality. It was conceived as a national institution that would offer progressive education and nationalist ideals to students from all communities, particularly the Muslims. The emergence of Jamia was supported by Gandhiji and Tagore who felt that Jamia could shape the lives of hundreds and thousands of students on the basis of a shared culture and worldview. Jamia's development is marked by sacrifices made by the staff and students and a host of individuals who contributed through myriad efforts.

Jamia Millia Islamia has become an ensemble of a multilayered educational system which covers all aspects of schooling, undergraduate, post-graduate, M.Phil/ Ph.D and post-doctoral education. With 9 faculties of learning, 38 teaching and research departments and over 27 centres of learning and research, we attract the brightest young minds from all over the country. They use creative space of Jamia to actualize their potential.

I am confident that our students will bring great laurels to your organisation as they are conscientious and sound professionals in the domain of Science and Technology and enthusiastically recommend them for your consideration.



Professor Najma Akhtar,
Hon'ble Vice Chancellor



H.O.D'S MESSAGE



Dear Recruiters,

I, as a Head of Department of Applied Sciences & Humanities, take this opportunity to invite all leading business organizations and companies to visit our campus to recruit/select students for final placements. It is my firm belief that our students of M. Tech. will bring great laurels to your esteemed organization.

Qualitative higher and technical education holds an edge in transforming human beings into human capital and human resource. Institutions of higher learning such as Central University Jamia Millia Islamia are committed to the task of reducing/bridging this gap.

In this endeavor, Department of Applied Sciences & Humanities of Jamia Millia Islamia has enriched its programs through complete overhauling of course structure, syllabus updated with contemporary requirements of the universities, institutions and industry. We have a strong placement team with experienced senior professor heading, to guide the talented and enthusiastic youth by providing direction in order to attain right placements which smooth-ens life's journey for self and future generations.

We would like to thank all the corporate who have in the recent past encouraged and responded to our Campus Recruitment Programs. We look forward to building a long term, mutually beneficial relationship with your esteemed organization.

I wish the outgoing batch of M. Tech. the very best in all their future endeavors, and hope they achieve success in their careers and lives.



**Professor Zishan Husain Khan,
Head,**

Department of Applied Sciences & Humanities



COORDINATOR'S MESSAGE



Dear Recruiters,

I am very proud to take this opportunity to welcome you for the placement of our students, who would be completing their M. Tech. In 2025. It is strongly believed that theoretical knowledge must be backed by practical exposure of young minds to working situations.

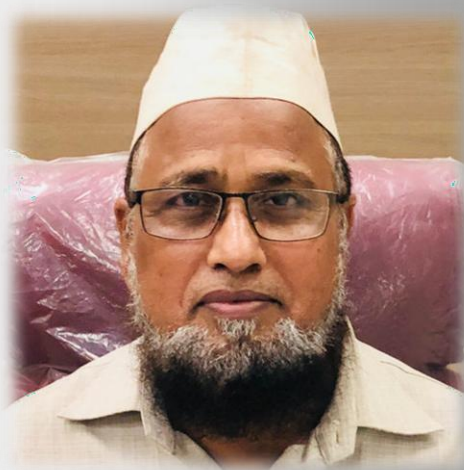
The era of globalization, coupled with the advent of Soft Computing and impetus of Internet, has brought up sea changes in the corporate governance and thinking process of human mind, especially in this current millennium. I am pleased to note that the Department of Applied Sciences & Humanities under the Faculty of Engineering & Technology is producing quality professionals in the field of Soft Computing. In addition to a 2 year post graduate program, M. Tech.(Computational Mathematics), the department is successfully running an M.Tech. (Energy Science) through a well-designed Fundamental industry-oriented curriculum.

I am sure that dedication and commitment of the students through their studies in these courses would contribute to national development by placing themselves in the industries and educational institutions. I am confident that students will also be marked out by international agencies. The mission of producing able and competent talented professionals in the department is being achieved due to the involvement of highly dedicated and experienced faculty members. I hope they will continue to produce worthy professionals to fulfill the industrial and educational need.

With this objective I certainly would like to invite all esteemed and relevant organizations and companies to conscript our students as competent and professionals that would eventually enable them to stand out in industry/organization/institutions and on global scale at large.



Professor Musheer Ahmad,
Course Coordinator



PLACEMENT DESK'S MESSAGE



Dear Recruiters,

Due to recent technological development, the requirements of industries are becoming more dynamic by the day. Students having knowledge of core subjects with skills in computer programming and Applied Mathematics are in great demand by the industries.

Department of Applied Sciences & Humanities is one of the oldest Department of Jamia Millia Islamia. It has highly qualified and skilled faculties and well-equipped computing facilities. It is a matter of pride that the Department of Applied Sciences & Humanities has been producing quality professionals in the field of Computation, Data Science and Artificial Intelligence. The students get rigorous exposure to Computer programming and its applications in Automation and Data Analysis.

It is our constant endeavor to provide knowledge based technological services to satisfy the needs of society and industry and thus help in building our national potentiality in technology and research for the development of the country.

Our placement office is well equipped with the facilities that are required for the smooth conduct of recruitment activities and I am sure that our students will find it useful in ensuring the placement of their choice. I congratulate the placement office for their efforts and wish all the students the best of luck in their chosen career path.

I, personally, take pleasure in inviting industries to take the opportunity of availing the best of the brains for individual as well corporate and, thereby, being a part of national development.



Prof. Rahela Farooqi,

Hony. Director, University Placement Cell



DEPARTMENT OF APPLIED SCIENCES & HUMANITIES

Established in 1996, as one of the departments of the Faculty of Engineering and Technology, this department participates in B. Tech and M. Tech programs offered by the faculty. In addition, the department offers a two-year M. Sc. Electronic program. There are 13 well-qualified and experienced faculty members whose services are available to the department. Faculty members of the department have published numerous research papers, research articles and books with reputed international publishers. The Department has been actively involved in research and development based on different domains of Applied Sciences and Humanities. The faculty members of the department has successfully completed many research projects in various fields of science and technology funded by different funding agencies. Several research projects are going on in the department and expected to deliver significant impact. The department has well equipped teaching and research laboratories for hands-on training of the students. The department is also involved in training and placement of its students in coordination with the Training and Placement Office of the university.



FACULTY MEMBERS

Dr. Musheer Ahmad

Professor & Coordinator

Ph.D., MPhil., MSc

Area of

Specialization: *Cryptography, Information and network security, Applications Of Group Theory, Applied Mathematics, Fuzzy Algebra and its Applications.*

Dr. Quddus Khan

Professor

Ph.D.

Area of Specialization:

Differential Geometry and manifolds

Dr. Mohammad Amjad

Professor

Ph.D., MTech

Area of

Specialization: *Wireless Sensor Networks and IoT, Mobile Computing, Security in Mobile Communication, Mobile Ad hoc Networks.*

Dr. Sarfaraz Masood

Assistant Professor

Ph.D., M.Tech.

Area of Specializations:

Applied Intelligence, Artificial Neural Networks, Network work Weight initialization of Sigmoidal feed forward neural networks, Deep Learning, Application of DL in the field of image processing and biomedical signal processing, Evolutionary Optimization techniques.

FACULTY MEMBERS

Dr. Ahmad Kamal

Assistant Professor

Ph.D., M.C.A

Area of Specialization:

*Data Mining,
Sentiment Analysis & Opin-
ion Mining,
Natural Language Processing,
and Machine Learning.*

Dr. Shahzad Alam

Assistant Professor

Ph.D., MTech

Area of Specialization:

*Image processing, information
Security, Cryptography and Soft
Computing Techniques.*

Dr. Musheer Ahmad

Assistant Professor

Ph.D., M.Tech.

Area of Specialization:

*Chaos-based, Cryptography,
Multidisciplinary Cryptography,
Crypt analysis, Hash Function
and Authentication,
Information Hiding, Meta-
heuristics for Security
Applications, Machine
Learning for Security
Applications*

Dr. Iftekhhar

Guest Lecturer

Ph.D., M. Sc. (Tech)

Area of Specialization:

*Applied Mathematics,
Applications of Group Theory,
Fuzzy Algebra and Its
Applications.*

Dr. Mansaf Alam

Expert Lect. & Guidance

Ph.D., M.C.A

Area of Specialization:

*Application Programming,
Database Management
Systems, Multimedia
Applications & Computer
Architecture & Design*

Prof. M. N. Hoda

Expert Lect. & Guidance

Ph.D., M.C.A

Area of Specialization:

*Computer Science, Information
Technology, Application
Programming*

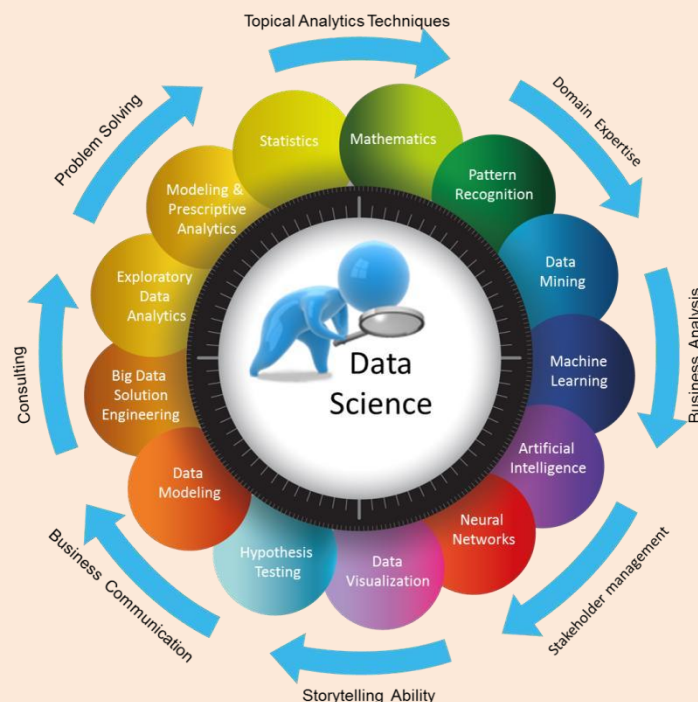


ABOUT COURSE STRUCTURE

A Master of Technology (MTech) in Computational Mathematics can open up various career opportunities in both academia and industry. Here are some potential scopes for individuals with an M.Tech. in Computational Mathematics:

Data Science and Analytics: With the increasing demand for data-driven decision-making, computational mathematics graduates can work in the field of Data Science and Analytics. They can use their mathematical and computational skills to analyze and interpret large datasets, making valuable contributions to Industries such as Finance, Healthcare and Technology.

Financial Modeling: Computational mathematics skills are highly valued in the Finance industry. Graduates can work on developing mathematical models for financial analysis, risk assessment and algorithmic trading. They may find opportunities in investment banks, hedge funds, and financial consulting firms.



Research and Development (R&D): Graduates can contribute to research in various fields such as applied mathematics, computer science, engineering, finance, data security and more. They may work on developing new algorithms, computational models, or solving complex mathematical problems.

Artificial Intelligence (AI) and Machine Learning (ML): Computational mathematics plays a crucial role in AI and ML algorithms. Graduates can contribute to developing advanced algorithms, optimizing models, and working on applications in areas like pattern recognition, image processing, natural language processing and recommendation systems.

Academia: Many individuals with an M. Tech. in Computational Mathematics choose to pursue a career in academia. They may become teachers, researchers, or educators in universities and research organizations, contributing to the academic community through teaching and publishing research papers.



CAREER AND SCOPE

The objectives of an M. Tech. program in Computational Mathematics are to provide students with a profound understanding of advanced mathematical theory and computational techniques, emphasizing their direct correlation with cutting-edge technologies such as deep learning, artificial intelligence(AI), neural networks, and machine learning (ML) and Data Analytics. The curriculum aims to equip students with the skills necessary to apply mathematical models to complex problems, fostering interdisciplinary connections with fields like computer science and engineering. Graduates are expected to demonstrate proficiency in utilizing mathematical concepts to develop and optimize algorithms, particularly those underpinning deep learning and neural network architectures in the realm of ML. The outcomes of the program include not only advanced mathematical competence but also a strong foundation in computational skills, enabling graduates to contribute to the rapidly evolving landscape of AI and ML technologies. Through research contributions and interdisciplinary applications, graduates are poised to leverage their M.Tech. in Computational Mathematics to make significant advancements in fields where the intersection of mathematical modeling and machine learning is pivotal. M. Tech. program in computational mathematics is designed to meet the needs of sophisticated users, especially in the context of scientific investigations and technological innovation. Computational mathematics combines mathematics with computer science to produce useful techniques. The syllabus would cover relevant areas which are in demand.





COURSE CURRICULUM

The M. Tech. program is designed to meet present and future needs of relevant mathematics in industry and research. The three components viz mathematics, computing and financial engineering need to be blended as integrated components to ensure relevance their mutual links are emphasized in the curriculum. Along with technical aspects of computing, the scope for development is pointed out. The program would be managed by a team of committed faculty members. They would impart skills and guide students in innovative ways.

Skills and information can be put to good use in diverse research projects. Some relevant fields include Data Mining, Big Data (map reduction), stochastic processes, machine learning, recommended systems and computer graphics.



FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
Subjects	Credits	Subjects	Credits
Computational Methods for Differential Equations	4	Seminar	4
Discrete Mathematics with Applications	4	Scientific Computing (Numerical Techniques)	4
Computer Programming(Python)	4	Data Warehouse and Data Mining	4
DatabaseManagementSystem (DBMS)	4	Big Data Analytics	4
NeuralNetworks&OptimizationTechniques	4	Machine Learning	4
Lab-I (ComputerProgrammingLab usingPython)	2	Big Data Analytics Lab (Lab-III)	2
Lab--II(ORACLE/MySQLLab)	2	Machine Learning Lab (Lab-IV)	2
Total Credits: 24		Total Credits: 24	

SECOND YEAR

THIRD SEMESTER		FOURTH SEMESTER	
Subjects	Credits	Subject	Credits
Minor Project	8	Major Project	12
MOOC Courses	8		
Total Credits: 16		Total Credits: 12	

PAST RECRUITERS

accenture

ACCOLITE

COMVIVA

EXL

HCL

Hexa**view**

nagarro

NEWGEN

FAISYS

unicommerce

logic**drop**

ruminds

TATA
TATA CONSULTANCY SERVICES

Pay**U**

AVYUG

NIIT

wipro

JABONG **COM**

IBM

Chegg



TO
THE
NEW



Microsoft

OPERA
software

NATIONAL
INFORMATICS
CENTRE
NIC

mindfire
BURN IGNORANCE

RANBAXY
LABORATORIES LIMITED



सी-डॉट
C-DOT

ENCYCLOPEDIA
Britannica



POLARIS
The Way Out.



genpact



zomato

TFT
think future technologies

Zillious



MARUTI
SUZUKI

JKT
a HIGH IQ Company

polestar



infogain
Engineering Business Outcomes



impetus



clicklabs

TOLEXO



Sapient

shop at places
Famous places. Best buys.

HUGHES

STUDENT 'S PROFILE

AFZAL GOUR



Qualification: B.Tech (Computer Science)

Skills: Database, Web Development

✉ mohdafzalsre@gmail.com

☎ +91-8477937524

MOHD AHMAR



Qualification: B.Tech (Mechatronics)

Skills: Python, Machine Learning, Data Visualization, My SQL, NLP

Interests: Machine Learning, Data Science

✉ mo.ahmar909@gmail.com

☎ +91-8368510260

MOHD TALHA



Qualification: B.E (COMPUTER ENGINEERING)

Skills: Python, SQL, Machine Learning, Deep Learning, NLP, API

✉ saiik970@gmail.com

☎ +91-9911648157

SIRAJ AHMAD



Qualification: M.Sc. (Mathematics)

Skills: Python, Applied and pure mathematics, Network Analysis, Machine learning and Neural Network

Interests: Data Science

✉ ssirajahmad321@gmail.com

☎ +91-9818056341

YASAR BEG



Qualification: M. Sc (Physics)

Skills: ML, AI, Neural network, Deep learning algorithms, My SQL, python, html, css, js

✉ yasamirza368@gmail.com

☎ +91-9997831285

PAST RECRUITERS





WHY HIRE US?

Computational mathematics combines mathematics with computer science to produce useful techniques. The syllabus would cover relevant areas which are in demand. The program is comprehensive and would (for instance) meet the needs of **ISRO, DRDO, DOS, BARC, research bodies and industry**. Graduates would participate in research & development as well as computational activities.

The comprehensive M. Tech in Computational Mathematics Program seeks to develop intellectual discipline, critical and analytical thinking, with the view to grooming passionate individuals capable of taking up responsibility. Under the guidance of expert faculty members, the rigorous curriculum in Computation has equipped the students with tools and techniques of Data Science and Artificial Intelligence. They are at their best when it comes to the understanding of Mathematics and Computer Science concepts and are capable of delivering exceptional performances for the mutual betterment of the organizations, they become a part of, and for themselves, as well.

The knowledge of key Data Science and AI concepts and their application to the current market scenario helps students in Data analysis and recommendations. For instance, papers like Statistics, Machine learning and Big Data have made the students better at understanding the theory underlying Data Science as well as familiar with real life functioning of the Digital markets. Moreover, the curricula place a lot of importance on intensive application-based research and analysis. To strengthen the skill set, the students are also trained to handle and implement data packages and software like Python, C++, SQL and Hadoop. Apart from this, the students have gained a holistic understanding in various work domains by applying their knowledge in a major project which is a part of curriculum.

Where do we fit in?

Data Science

AI Research

BlockChain

Cryptography

Business Analytics

Data Analytics

Telecom Industry

Software Industry

Automation

Risk Advisory & Insurance

Financial Institutions

Pharmaceutical Industry



RECRUITMENT FORM

Name of the organisation: _____

Contact Person: _____ Designation: _____

Phone Number: _____ Email ID: _____

BRIEF DESCRIPTION OF JOB

S.NO	JOB DESCRIPTION/ DESIGNATION	OFFERS/ VACANCIES	SALARY OFFERED	LOCATION

PRE PLACEMENT TALKS (PPT) DETAILS

Will you be delivering PPT (Yes/ No) _____ Desired Date _____

PLACEMENT PROCESS

ROUNDS	WILLING TO CONDUCT (YES/ NO)	DESIRED DATE
Preliminary/ Written test		
Group Discussion		
Personal Interview		
Any Other (Please specify)		

Any other information:

CONTACTUS



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Hony. Director

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☎ 011-26989106(D)26981717 Extn.: 2580/81

THE TEAM



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Thank you



