



Faculty of Engineering and Technology Announces New Self-Finance B.Tech and M.Tech Programs

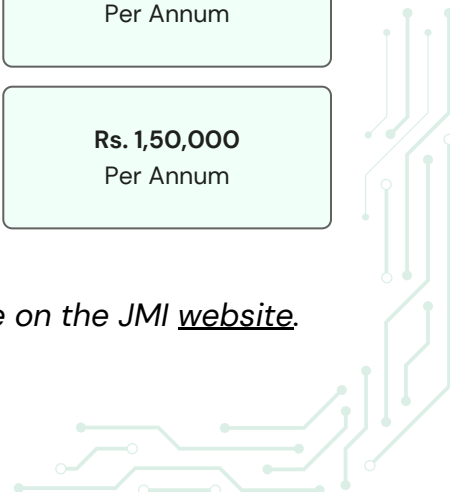
Jamia Millia Islamia, a 3rd ranked central university is glad to announce the launch of several pioneering technical programs that aim at equipping students with cutting-edge skills and expertise at the intersection of technology and innovation. Jamia Millia Islamia offers these new programs to meet the changing demands of both industry and students, as part of its commitment to remain at the forefront of educational innovation.

The new programs span a diverse range of disciplines, offering students the opportunity to explore emerging fields and acquire specialized skills.

FET JMI NEW PROGRAM DETAILS

Course	Description	Fee Structure
M.Tech Data Sciences	Duration: 4 Semester Through JMI Entrance Test	Rs. 55,100 Per Annum
B.Tech Electrical & Computer Engineering	Duration: 8 Semester Through JEE Mains (Final Rank)	Rs. 1,50,000 Per Annum
B.Tech Computer Science & Engineering (Data Science)	Duration: 8 Semester Through JEE Mains (Final Rank)	Rs. 1,50,000 Per Annum
B.Tech Electronics (VLSI design and Technology)	Duration: 8 Semester Through JEE Mains (Final Rank)	Rs. 1,50,000 Per Annum

NOTE: Applicants must fill a separate form for B.Tech available on the [JMI website](#).



Dean's Message

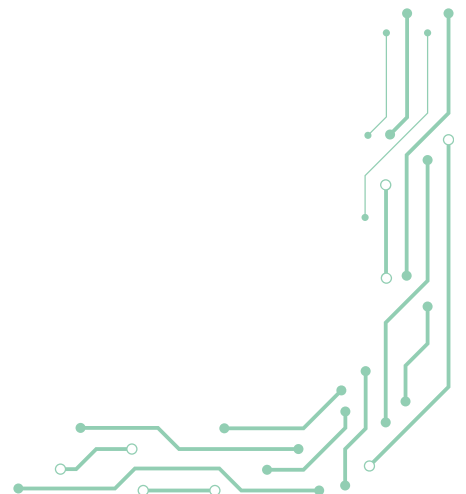
Faculty of Engineering & Technology, JMI

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The introduction of these new BTech programs underscores our commitment to providing cutting-edge education that aligns with industry needs. By integrating emerging technologies into our curriculum, we are preparing students to excel in the rapidly evolving technological landscape.



Prof. Mini Shaji Thomas



M.TECH

In Data Sciences

Self-Financed

M.Tech. in Data Science is currently a highly demanding field in the job market. This is a 4 semester program and will provide a significant opportunity for professional development in emerging areas such as healthcare, retail, finance, transportation and many more in the government organization and private sector. The course structure of this program is mapped with the today's requirement in the field of Data Analyst, Data Scientist, Machine learning, Deep Learning, Reinforcement learning and data visualization.

KEY HIGHLIGHTS OF THE PROGRAM INCLUDE:

- **Core Courses:** The curriculum of this program has been designed to provide opportunities in the various government and private sectors as well for the research aspects in the field of Data Science. High demanding and updated syllabus such as Data visualization, Data mining, Big Data, Natural Language Processing and Information extraction, Machine learning, Deep Learning, Cloud Computing etc. along with their advanced labs.
- **Research and Versatile skill:** This program covers various advanced topics in the field of data science, it will equip the students in adaptable industry demand as well as in Research and innovation by encouraging students to think critically and develop inventive approaches.
- **Hands on Experience:** Labs will be conducted on the advanced topic in the Data Science and engineering using new tools and techniques and will be applied in the Minor and Major projects.
- **Expert faculty members:** Highly qualified faculty members to teach the subjects and prepare students for demanding job market and for further research and higher studies.



B.TECH

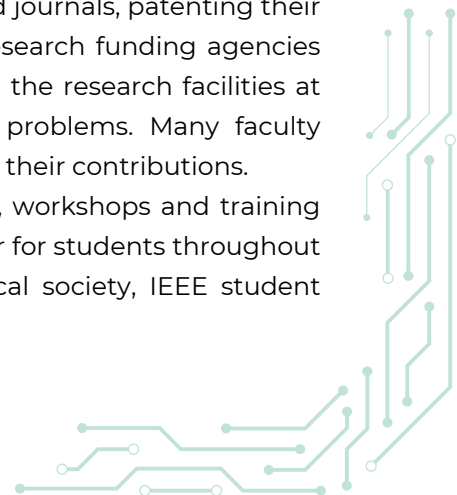
In Electrical & Computer Engineering

Self-Financed

The B.Tech. in Electrical & Computer Engineering program offered by the Department of Electrical Engineering aims to prepare the students for the issues and advancements in Electrical, Electronics, Communication and Computer Engineering areas in industry as well as academia through a well-structured curriculum. This program will equip students with a versatile skill set that enables them to adapt to evolving technology and industry trends, making them valuable in a wide range of professional roles in countless industries including the process automation, electric vehicle, robotics, biomedical healthcare, and renewable energy sectors.

KEY HIGHLIGHTS OF THE PROGRAM INCLUDE:

- **Cutting Edge Curriculum:** A well curated curriculum will provide students with a holistic understanding of electrical and computer engineering, allowing them to bridge the gap between hardware and software in various applications. The students can optionally earn minors in other disciplines offered by other Departments. Several new programs in computer engineering, communication engineering, and Electrical Engineering have been introduced in the curriculum to align the students with the current industry requirements and trends worldwide. The programs offered include Power Electronics & Machine Drives, Data Structure & Algorithms, AI & machine Learning, Computer Organization & Architecture, Cyber Security, Control System, Microcontroller & Applications, SCADA & Smart Grid Technologies and elective programs like Power System Automation, Cyber Physical Systems, Embedded Systems, Advanced Protective Relays, Cloud Computing, Deep Learning etc.
- **State of Art Laboratories:** The Department has state-of-the-art laboratories with sophisticated instruments, software, and computational facilities. Department has laboratories in some specialised areas like Instrumentation System Research Laboratory, Advance Power Electronics Research Laboratory, SCADA and Smart Grid RTDS Research Laboratory Smart Energy Systems Automation Research Laboratory, Biomedical Research Laboratory.
- **Adept Faculty:** The Department has qualified and experienced faculty in all the domains of the program. They are actively engaged in research with challenging issues relevant to industry and academia. They are continuously engaged in publishing in highly reputed journals, patenting their research findings, and bringing generous research grants from Govt. research funding agencies like DRDO, DST, AICTE, MHRD, MNRE, UGC, DOE, BARC etc. to upgrade the research facilities at the department and to provide innovative solutions to engineering problems. Many faculty members have received prestigious national and international awards for their contributions.
- **Skill Enhancement Initiatives:** Industry Visit, expert Lectures, seminars, workshops and training program are conducted by eminent researchers and industry practitioner for students throughout the semester by the Department Subject Association and the technical society, IEEE student branch of JMI.



B.TECH

In Computer Science & Engineering (Data Sciences)

Self-Financed

This program is among the most sought-after program currently in India and abroad due to massive enhancement in the broad area of Data Science. With the advent of new technologies like Machine learning, Deep Learning, Reinforcement learning this program has created a good job market as many companies have established a separate unit for these technologies. The program will lead the students to learn the advanced concepts by way of strong theoretical and practical fundamentals along with projects to be able to master this field of technology.

KEY HIGHLIGHTS OF THE PROGRAM INCLUDE:

- **Updated Syllabus:** The syllabus of this program has been designed keeping in mind the needs of the industry. Apart from the basic Computer Science subjects the program covers several specific subjects like Data Mining, Data Analytics, Machine learning, Deep Learning, Social Network Analysis, Natural Language Processing and Information extraction, Neural network along with their related labs as part of the syllabus.
- **Job Market:** This program has been created keeping in mind the requirement of jobs in the area of Data Science. As per the report in The Hindu, 1st May, 2023, *"The Indian job market is estimated to witness 22% churn over the next five years, with top emerging roles coming from AI, machine learning and data segments"*. The Economic times released a survey on 23rd May, 2023 which says *"There are 45,000 artificial intelligence job openings in India, with data scientists and ML engineers among the most sought after careers, as per a report released by TeamLease Digital"*.
- **Practical Observer:** The program covers many programming tools as well as languages which will be beneficial for the students to master the practical aspects of this program. A total of 15 labs have been covered in the syllabus so that the students get sufficient hands-on-experience.
- **Versatile skill set:** Since this program covers various topics in the field of data science it will equip the students with a wide range of skills making them suitable to work in different domains.
- **Government initiatives:** The Indian government has been supportive of initiatives related to AI and technology. Programs such as the National AI Mission aim to promote research and development in AI, fostering a conducive environment for professionals in the field.



B.TECH

In Electronics (VLSI Design & Technology)

Self-Financed

B.Tech. Program in Electronics (VLSI Design and Technology) is a program that leads India's semiconductor chip designing and fabrication initiative, following the Government of India big plan India Semiconductor Mission (ISM). Students will have a combination of practical experience in designing and executing complicated integrated circuits utilising industry-standard tools and technologies with classroom instruction, hands-on laboratory exercises, and industrial internships.

KEY HIGHLIGHTS OF THE PROGRAM INCLUDE:

- **Advanced Curriculum:** Our program guarantees an excellent curriculum, carefully designed to meet global standards, ensuring students receive top quality education right here in New Delhi.
- **Forefront Facilities:** Our labs are well equipped with the latest tools and technologies, enabling students to learn, create and succeed.
- **Expert Faculty:** Educate from the best! With extensive expertise and multiple publications in prestigious journals, our faculty members are specialists in VLSI Design and Technology.
- **Government Support:** Understanding the importance of this field, the Government of India has mandated reputed universities to offer B.Tech. programs in Electronics (VLSI Design and Technology), including Jamia Millia Islamia, aligning with the country's goal of becoming a global leader in the design and manufacture of electronics under India Semiconductor Mission.

For more information about these new programs and admissions procedures, visit: www.jmicoe.in or send your queries to fetadmissions@jmi.ac.in



Apply Now!