



**ख्वाजा मुईनुद्दीन चिश्ती भाषा विश्वविद्यालय, लखनऊ, उत्तर प्रदेश (भारत)**  
**Khwaja Moinuddin Chishti Language University, Lucknow, U.P. (India)**

U.P. STATE GOVERNMENT UNIVERSITY,  
(Recognised Under Section 2(f) & 12(B) of the UGC Act, 1956 & B.Tech. Approved by (AICTE))

**Name of the Department**

**Department of Biotechnology Engineering**

**Year of establishment:** 2019

**Vision of the Department**

- The department aspires to attain a leading role in Bio-Technology serve as a valuable resource for industry, restoration of environment, and associated with newly emerging diseases by improved diagnostics, drugs and vaccines for society. We believe in learning by doing strategy and try to improve the holistic development of Students.

**Mission of the Department**

**M-1:** To encourage students to learn, practice, and develop Bio-Technological Tools and Techniques.

**M-2:** To develop assays for diagnostics and preventative measures for Life sciences, Pharmaceutical, Environmental, and Food industries using new approaches.

**M-3:** To develop the socio-economic status of students through fruitful academic programs and entrepreneurship.

**3. Programme offered :-**

S. No.	Level	Course Name
1	Undergraduate	AICTE Approved B. Tech (1 <sup>st</sup> Semester and by Lateral Entry in 3 <sup>rd</sup> Semester)
2	Post-Graduate	AICTE Approved M. Tech Biotechnology

**4. Specializations:**

**a. Genetic Engineering**

- Focus: Recombinant DNA technology, gene editing (e.g., CRISPR), transgenics
- Applications: Agriculture (GM crops), gene therapy, pharmaceuticals

**b. Microbial Biotechnology**

- Focus: Use of microorganisms in industry, medicine, and environmental applications
- Applications: Antibiotic production, fermentation, bioremediation

**c. Molecular Biology and Biochemistry**

- Focus: Cellular processes, protein synthesis, enzyme kinetics
- Applications: Drug development, disease diagnostics, academic research



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**d. Bioinformatics**

- Focus: Computational biology, genomics, proteomics, structural biology
- Applications: Genome sequencing, drug discovery, systems biology

**e. Bioprocess Engineering / Industrial Biotechnology**

- Focus: Design and operation of bioreactors, scale-up processes, downstream processing
- Applications: Biopharmaceuticals, industrial enzymes, biofuels

**f. Agricultural Biotechnology / Plant Biotechnology**

- Focus: Genetic modification of plants, tissue culture, crop improvement
- Applications: Drought-resistant crops, pest-resistant plants, increased yield

**5. Facilities:**

- Well-equipped labs are essential for hands-on learning and research
- Departmental Library or Resource Center
- Collaboration with labs and institutions for Research & Project Facilities
- Industry Interaction & Training
- SWAYAM NPTEL and value added courses
- State government scholarships
- Startup and Innovation Support

**6. Number of faculty members**

01(Associate Professor) & 05 (Assistant Professors)

**7. Labs/Equipment**

- **Genetics & Molecular Biology Lab:** Equipped for advanced studies in gene structure, function, and molecular mechanisms, this lab facilitates experiments in DNA/RNA analysis, PCR, gene cloning, and other molecular biology techniques.
- **Biochemistry Lab:** Focused on the chemical processes of living organisms, this lab supports studies in protein, enzyme, and metabolite analysis, providing hands-on experience in biochemical assays and analytical techniques.
- **Microbiology & Immunology Lab:** Dedicated to studying microorganisms and immune responses, this lab enables research in microbial culture, identification, pathogen detection, and immunological assays.
- **Enzyme & Food Biotechnology Lab:** Specializes in enzyme applications and food biotechnology, allowing experimentation in enzyme kinetics, fermentation, food analysis, and biotechnological innovations for food processing.
- The **Seminar and Research Lab of Biotechnology** is designed to facilitate both advanced research and academic discourse. It provides a collaborative environment where students and researchers can engage in cutting-edge experiments in molecular biology, genetics, microbiology, and biochemistry.



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Students working in the laboratory

## Equipments

- Deep Freezer
- UV-Spectrophotometer
- Gel Documentation System
- Tissue Homogenizer
- Thermocycler
- UV Transilluminator
- Laminar Air Flow
- pH meter
- Colorimeter
- Refrigerator
- Microwave oven
- Centrifuge
- ELISA
- Soxhlet Extraction Unit
- Distillation Unit etc
- Tissue Racks
- Nano-Drop
- B.O.D. Incubator
- Hot Air Oven
- Autoclave
- Incubator .....etc.



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## 8. Student activities and clubs (Session 2025-26)



**Women's Equality Day Celebrated by Department of Biotechnology Engineering, KMCLU with Poster Making Competition**



**As part of the Induction Programme for first-year B.Tech students, Department of Biotechnology Engineering organized a Motivational Lecture was also organized, delivered by Mr. Vinay Kumar Singh Manek, a renowned motivational speaker.**



**Department of Biotechnology Engineering organised a Special Lecture & Award Felicitation Ceremony of BPCIL National Scholarship Exam in collaboration with BPCIL.**



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**The Department of Biotechnology Engineering, Khwaja Moinuddin Chishti Language University (KMCLU), Lucknow, organized a comprehensive laboratory visit today for its newly enrolled first year undergraduate students on the fourth day of the three week orientation program.**



**Department of Biotechnology Engineering organized a Special Guest Lecture on “Bioinspired Engineering: Learning Science from Nature” by Prof. Pradeep Kumar Srivastava renowned as the Father of Scientoons and Scientoonics and former Principal Scientist at CDRI.**



**The Faculty of Engineering & Technology, KMCLU, Lucknow, successfully held the Valedictory Session of the Induction Program 2025. Chief Guest Sri Neeraj Singh, Chairman, FICCI U.P., inspired students and assured them of paid internships, training, and placement opportunities to support their future careers.**



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**The Faculty of Engineering and Technology conducted a Plantation Drive, during which students adopted plants and committed to nurturing and maintaining them.**

**9. Research areas and ongoing projects:-** 2UPCST- projects for AICTE student grant are completed.

**10. Placement highlights/Achievements:-** We try to support early bird placement strategy.

**B.Tech Biotechnology 7<sup>th</sup> semester students have successfully secured placements in reputed organizations in the field of clinical research:**

**Ms. Shivangi Seth**

Placed as Clinical Trial Assistant Intern

Organization: Clinical Research Network India Pvt. Ltd., Noida

**Ms. Saumya Mishra**

Appointed as Clinical Research Coordinator

Organization: Bioss Clinical Services Pvt. Ltd., Kanpur

Job Location: GSVM Medical College, Kanpur

**Ms. Yashi Mishra**

Appointed as Clinical Research Coordinator

Organization: Prime Medical Services, Ghaziabad

Job Location: Panchsheel Hospital, Delhi



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 <b>Arshi Fatima</b> Batch – 2025 Adobe	 <b>Shambhavi Mishra</b> Batch – 2025 IIT-Bombay	 <b>Shivam Chandra</b> Batch – 2025 Hindustan Wellness	 <b>Suryansh Mishra</b> Batch – 2025 MRD Lifesciences	 <b>Vaishnavi Mishra</b> Batch – 2025 IIT-Bombay	 <b>Ayush Kumar Maneesh</b> Batch – 2025 Pharmaceuticals	 <b>Asahab Khan</b> Batch – 2024 Lifecom Pharmaceuticals	 <b>Krati Patel</b> Batch – 2024 GATE Qualified	 <b>Ritika</b> Batch – 2024 M.Tech at IET	 <b>Agrima</b> Batch – 2024 M.Tech at HBTU
 <b>Shankey Patel</b> Batch – 2024 Axon Medical Solutions	 <b>Aman Srivastava</b> Batch – 2024 Coca-Cola	 <b>Smita Yadav</b> Batch – 2024 M.Tech at DTU	 <b>Shruti Singh</b> Batch – 2024 GATE Qualified	 <b>Ashish Verma</b> Batch – 2024 GATE (AIR 156)	 <b>Sudhanshu Bhaskar</b> Batch – 2024 M.Tech at IIT-Guwahati	 <b>Zainab Fatima</b> Batch – 2024 M.Tech at AMU	 <b>Spash Tiwari</b> Batch – 2024 Placed at Haldiram's Pvt. Ltd.	 <b>Chandrabhan</b> Batch – 2024 GATE Qualified	

11. Patents/Publications:- Total 19 Patent in Department in which 2 patents are with students:

S. No.	Patent Application No.	Inventor(s) Name	Title of the Patent	Patent Published Date	Patent Publication Number	International/National	Status
1	394202-001	Deepak Maurya Suryansh Mishra etc.	Pest and Insect Control Device Based on Ultrasonic Sound Waves for Agricultural Farms	17/10/2023	146140	National	Granted
2	394203-001	Deepak Maurya, Suryansh Mishra	Smart Refrigeration Device With Spoilage Prevention System	31/10/2023	147388	National	Granted



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