



PLACEMENT BROCHURE

DEPARTMENT OF
PHARMACEUTICAL SCIENCES &
TECHNOLOGY

BIRLA INSTITUTE OF TECHNOLOGY

2024-2025





ABOUT THE DEPARTMENT

The Department of Pharmaceutical Science & Technology, established in 1972, boasts of its 52 years of golden association in building professionals for the industry and academia. The department is composed of a robust scientific community comprising of qualified and competent faculties, undergraduate and postgraduate students and research fellows.

PROGRAMS OFFERED

UG PROGRAMMES

B.Pharm (Bachelor of Pharmacy)

PG PROGRAMMES

M.Pharm (Master of Pharmacy)
Pharmaceutics
Pharmaceutical Chemistry
Pharmacology
Pharmacognosy
Pharmaceutical Quality assurance

DOCTRAL PROGRAMMES

PhD

COURSES OFFERED

- **Human Anatomy and Physiology**
- **Pathophysiology**
- **Computer Applications in Pharmacy**
- **Environmental sciences**
- **Pharmaceutical Microbiology**
- **Pharmaceutical Engineering**
- **Pharmacology**
- **Pharmacognosy and Phytochemistry I**
- **Pharmaceutical Jurisprudence**
- **Industrial Pharmacy**

RESEARCH AREAS

Pharmaceutics

- In silico pharmaceutical simulations.
- Nanoparticle-based drug delivery system.
- Lipid-based drug delivery.
- PK/PD studies.
- Transdermal drug delivery

Pharmaceutical Quality Assurance

- Analytical method development and validation.
- Bioanalytical method development and validation.
- Impurity profiling and metabolite Studies of drug and drug products

Pharmacognosy

- Formulation and development of herbal products.

- PEvaluation of Biopolymers in drug delivery.
- Standardization of formulations containing drugs from natural origin.

Pharmacology

- In-vivo studies of bioactive molecules in diabetes-induced wound healing
- In-vivo pharmacological studies on bioactive molecules in neurodegenerative disorders.
- Photodynamic therapy.
- Toxicological studies.

Pharmaceutical Chemistry

- In-silico design, synthesis, and evaluation of anti-HIV drugs.
- Molecular modelling and chemoinformatics.
- Antitubercular mycobactin biosynthesis inhibitor.



LABORATORIES & FACILITIES

- DSC & TGA (DSC4000- TGA-4000)
- DSC-50 SHIMADZU 16.
- DSC-60
- FLUID BED PROCESSOR
- FT-IR 8400S
- HPLC (1525) PDA DETECTOR WATERS
- HPLC PDA DETECTOR.
- HPLC UV-VIS & ELECTROCHEMICAL DETECTOR WATERS
- HPTLC (LINOMAT IV, SCANNER3)
- UV-VIS SPECTROPHOTOMETER
- UV-2450 (SHIMADZU)
- MILLI Q WATER PURIFICATION UNIT (MILLIPORE)
- FLASH CHROMATOGRAPHY
- PHOTO DYNAMIC THERAPY (PDT)



ACHIVEMENTS

01

- Aptamer based Electro Sensor for detection of NDMA Impurity (a potential carcinogen)
- Expanding the scope of Anti-Cancer Drug Discovery: A Multi-targeted approach for simultaneous inhibition of CDK4, CYP1B1 and Tubulin Proteins

02

- Gaurav Rakshit and Varnita Karmakar secured the prestigious CSIR-SRF DIRECT fellowship for their PhD pursuits.
- Mr. Fahaduddin Ph.D. Scholar received the second prize in Poster Presentation award at SPIRT: The Annual Techno-Pharma Conclave, IIT BHU, 2024
- Tanishk Saini, PhD scholar, along with co-author Dr. Papiya M Mazumder, received the Second Prize in oral/poster competition during 31st Indo-US International Conference.

03

Ms. Muskan Gupta M.Pharm final year student received the 3rd Position in the Oral Presentation at International Conference on High-Throughput Data Analysis and Artificial Intelligence in Biological Research.

Dr. M. P. Chopra unanimously chosen for the Fellowship of IPA for the year 2023.

OUR RECRUITERS



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