



BITS Pilani
Hyderabad Campus

DEPARTMENT OF PHARMACY

PLACEMENT BROCHURE

BITS Pilani Hyderabad Campus



Department of Pharmacy



• About the Department

The Department of Pharmacy at BITS-Pilani – Hyderabad Campus is one of the premier departments in the institute that focused on internationally competitive teaching and research activities as per the need of pharmaceutical industry. Department offers various courses like B. Pharm., M. Pharm. – Pharmaceutics, PhD, which are designed with an aim to keep pace with the rapidly evolving pharmaceutical industry that demands unwavering passion and urge to innovate. The broad spectrum of courses is taught by a group of highly experienced faculty members active in research work in the respective areas. The syllabus -rigorous in design and content- is in keeping with the latest developments in the industry. Department is actively involved in innovative research practices in collaboration with various pharmaceutical industries and national/international research institutes. The department received funding from various government agencies (DST, DBT, CSIR, ICMR) in a continuous process to strengthen its research capabilities. Recently, the Department of Pharmacy has been ranked 5th nationally by NIRF in 2019.

• Programs Offered by the Department

- B. Pharmacy
- M. Pharmacy – Pharmaceutics
- PhD

Important Courses for B. Pharm.

- Physical Pharmacy
- Industrial Pharmacy
- Pharmaceutical Formulations and Biopharmaceutics
- Dispensing Pharmacy
- Cosmetic Sciences
- Pharmaceutical Analysis
- Natural Drugs
- Pharmacology and Toxicology
- Forensic Pharmacy
- Engineering Graphics
- Probability & Statistics
- Technical Report Writing

Important Courses for M. Pharm.

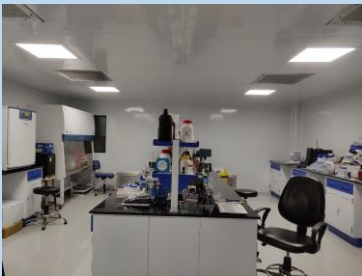
- Advanced Physical Pharmaceutics
- Advanced Drug Delivery Systems
- Dosage Form Design
- Quality Assurance and Regulatory Affairs
- Quality by Design
- Pharmaceutical Biotechnology
- Instrumental Methods of Analysis
- Pharmacokinetics & Clinical Pharmacy
- Clinical Research
- Pharmaceutical Administration and Management
- Intellectual property rights (IPR)



Facilities in Department

- Academic & Research Laboratories

The department has various labs aimed at providing practical knowledge to the students in different areas of drug delivery, phytochemistry, drug chemistry, pharmacology, etc. The lab courses are introduced at appropriate stages of the course programme enabling the thought process needed for the making of a good pharmacy graduate. The students gain practical knowledge which shall serve as a background for the complete understanding of their core subjects and somehow prepare them in a way so that they can face the industry world once they graduated. The labs are handled by the respective faculty in charge of the course and managed by a particular faculty as regards for periodic maintenance and improving the infrastructure from time to time. Highly qualified technicians and teaching assistants of the department help the faculty in charge for conducting the lab and student evaluation. The research labs houses advanced equipment for carrying out projects by the PhD scholars and higher degree students of the department under the supervision of the respective principal investigator from the department faculty.





Opportunities given for students

All students undertake projects in different courses to expose themselves to the current trends in the industry. The students also undertake a study project, design project, Lab project/research practice course to understand various practices followed in the Research field under the guidance of an experienced faculty from the department.

The practice school program is a unique asset of BITS where in the student is exposed to industrial problems and gain hands-on experience in solving them. The Dissertation option allows student to pursue his research for one full semester. Students are working under specific ongoing as well as new projects under the supervision of the faculty. One semester long dissertation allows student to imbibe current research trends and professional guidance of the faculty helps in better understanding and solving of the problems.

Various opportunity offered to students:

- Lab Oriented Project
- Study Oriented Project
- Design Oriented Project
- Teaching Assistantship
- Study in Advanced Topics
- Research Practice
- Practice School
- Dissertation/Thesis



Thrust Areas of Research

- Nano/micro-carrier mediated Drug Delivery for Transdermal/Topical applications
- Non-Viral Carriers for Gene-based Drug Delivery
- Development of Biomaterials for Drug Delivery
- Development of novel nanoparticulate and macromolecular drug delivery systems mainly liposomes, polymeric micelles and dendrimers for cancer therapy
- Ocular pharmacokinetics and pharmacodynamics
- Ocular drug development/repurposing
- Membrane transporter targeted drug delivery
- Novel Differentiated Product Development (505b2 based approaches)
- Development of vesicular carrier system for enhancing drug efficacy and safety
- Antimicrobial drug discovery & design
- Design and Synthesis of new Targets of Neurological disorders
- Drug Discovery from medicinal plants and microbes
- Pharmacological evaluation of novel chemical entities and novel biological therapies
- Exploration and understanding biological systems at the molecular level for drug delivery



Funded Projects

Department of Pharmacy generated more than 8 crore of funding in last five years from various agencies. Some of the selective funded projects are:

- Structure based rational design and synthesis of inhibitors for various enzymes of HIV – Funded by DBT – Rs. 5617400
- Strategies against antibiotic resistance in Mycobacterium tuberculosis and Pseudomonas aeruginosa: new drugs for old targets and old drugs for new targets – Funded by DBT Indo-Swedish – Rs. 6192000
- Enzymes from Purine and Pyrimidine Biosynthetic pathway as targets for the development of Mycobacterium tuberculosis drugs - Funded by DBT-Indo-Brazil – Rs. 4822990
- Strategies against antibiotic resistance in Mycobacterium tuberculosis and ESKAPE pathogens; new drugs and new targets – Funded by DBT Indo Sweden-3 – Rs. 6700068
- Development of pH-responsive smart capsule containing targeted multilayer film for drug delivery: The proof-of-concept study in colorectal cancer mode – Funded by DST – Rs. 5554225
- Functional role of histone deacetylase 5 (HDAC5) in the pathogenesis of chronic kidney diseases and renal fibrosis – Funded by DBT – Rs. 7016800
- Cell Penetrating Peptide Octa-Arginine anchored, multifunctional Poly(amidoamine) Dendrimer to Promote Delivery of Chemotherapeutics in Cancer – Funded by DBT – Rs. 3488640
- Development of a Non-invasive biodegradable polymeric microprojection ocular patch for effective corneal delivery of anti-microbial agents to treat fungal infections of eye – Funded by ICMR – Rs. 4225150
- Development of epigenomes-targeted liposomes for the cancer specific delivery of chemotherapeutic drug, Doxorubicin – Funded by Sun Pharma – Rs. 2900000
- Development for sustained release injectable formulations – Funded by Daewoong Pharmaceutical – Rs. 2200000
- Transcutaneous delivery of liraglutide using zein microneedle array - Natco Pharma Ltd. – Rs. 2242500



FACULTY PROFILE



Prof. D. Sriram

Professor & Head

Department of Pharmacy,

BITS-Pilani, Hyderabad Campus, Jawahar Nagar, Hyderabad

Email: dsriram@hyderabad.bits-pilani.ac.in



Prof. P. Yogeeswari

Professor

Department of Pharmacy,

BITS-Pilani, Hyderabad Campus, Jawahar Nagar, Hyderabad

Email: pyogee@hyderabad.bits-pilani.ac.in

Phone: 040-66303515



Prof. Punna Rao Ravi

Associate Professor

Department of Pharmacy,

BITS-Pilani, Hyderabad Campus, Jawahar Nagar, Hyderabad

Email: rpunnarao@hyderabad.bits-pilani.ac.in

Phone: 040-66303539



Prof. A. Sajeli Begum

Associate Professor

Department of Pharmacy,

BITS-Pilani, Hyderabad Campus, Jawahar Nagar, Hyderabad

Email: sajeli@hyderabad.bits-pilani.ac.in

Phone: 040-66303578



Venkata Vamsi Krishna Venuganti, PhD

Associate Professor

Department of Pharmacy,

BITS-Pilani, Hyderabad Campus, Jawahar Nagar, Hyderabad

Email: vamsi@hyderabad.bits-pilani.ac.in

Phone: 040-66303581



FACULTY PROFILE



Prof. Swati Biswas

Associate Professor

Department of Pharmacy,

BITS-Pilani, Hyderabad Campus, Jawahar Nagar, Hyderabad

Email: swati.biswas@hyderabad.bits-pilani.ac.in

Phone: 040-66303630



Prof. Onkar Prakash Kulkarni

Associate Professor

Department of Pharmacy,

BITS-Pilani, Hyderabad Campus, Jawahar Nagar, Hyderabad

Email: onkar@hyderabad.bits-pilani.ac.in

Phone: 91-40-66303644



Prof. Arti Dhar

Associate Professor

Department of Pharmacy,

BITS-Pilani, Hyderabad Campus, Jawahar Nagar, Hyderabad

Email: artidhar@hyderabad.bits-pilani.ac.in

Phone: 04066303647



Dr. Balaram Ghosh

Assistant Professor

Department of Pharmacy,

BITS-Pilani, Hyderabad Campus, Jawahar Nagar, Hyderabad

Email: balaram@hyderabad.bits-pilani.ac.in

Phone: 04066303639



Dr. Nirmal J

Assistant Professor

Department of Pharmacy,

BITS-Pilani, Hyderabad Campus, Jawahar Nagar, Hyderabad

Phone: +91-40-66303574

Email: nirmalj@hyderabad.bits-pilani.ac.in



Dr. Akash Chaurasiya

Assistant Professor

Department of Pharmacy,

BITS-Pilani, Hyderabad Campus, Jawahar Nagar, Hyderabad

Phone: +91-40-66303541

Email: akashc@hyderabad.bits-pilani.ac.in



BITS Pilani
Hyderabad Campus

Department of Pharmacy Contacts – Placement Related

Dr. Akash Chaurasiya

Department Placement Coordinator

Department of Pharmacy,

BITS-Pilani, Hyderabad Campus, Jawahar Nagar, Hyderabad

Phone: +91-40-66303541

Mobile No. 7096673832

Email: akashc@hyderabad.bits-pilani.ac.in

Student Placement Coordinators

Mr. Shreyas Chordiya

M. Pharm. – Pharmaceutics

BITS Pilani, Hyderabad Campus

BITS-Pilani, Hyderabad Campus, Jawahar Nagar, Hyderabad

Mobile No. 8308000696

Email: h20181460234@hyderabad.bits-pilani.ac.in