



HINDUSTAN
INSTITUTE OF TECHNOLOGY & SCIENCE
(DEEMED TO BE UNIVERSITY)



School of Pharmacy

BACHELOR OF PHARMACY

[B. Pharm.]



Message from the Chancellor

The launch of Bachelor of Pharmacy (B. Pharm.) program at HITS is a significant milestone in our Institution's journey towards excellence in pharmaceutical education and research. Pharmacy is a field that plays a crucial role in healthcare, touching the lives of countless individuals. With the growing demands and advancements in healthcare, the need for skilled and compassionate pharmacists has never been more evident. Our B. Pharm. program aims to nurture and equip aspiring professionals with the knowledge, skills, and ethical values necessary to excel in this dynamic and evolving field.



Throughout this program, you will embark on a transformative educational journey that combines classroom learning, practical experiences, and hands-on training. Our esteemed faculty members, who are experts in their respective fields, will guide and inspire you to push the boundaries of your knowledge and develop a deep understanding of Pharmaceutical sciences.

As future pharmacists, you will have the opportunity to explore various domains of Pharmacy, including Pharmaceutical chemistry, Pharmacology, Pharmacotherapy, Pharmaceutical technology, and much more. The program is designed to foster critical thinking, problem-solving abilities, and a strong foundation in patient care. It will also emphasize the significance of research, innovation, and ethical practices in the pharmaceutical industry.

You need to bear in mind that as future pharmacists, you hold a tremendous responsibility towards society. Your expertise and dedication will impact the lives of patients, contribute to improving healthcare outcomes, and promote the well-being of communities. Embrace this responsibility with compassion, integrity, and a commitment to lifelong learning.

Dr. Anand Jacob Verghese



About the Institution

HINDUSTAN INSTITUTE OF TECHNOLOGY & SCIENCE (HITS), is a leading prestigious, and recognized institution in India, located at Chennai, Tamil Nadu. Commenced in 1985, it offers a wide spectrum of Undergraduate, Postgraduate, Diploma, Research & Doctoral Programmes in diverse fields of Engineering, Technology, Architecture, Management, Law, Fashion Design, Aviation, Applied Sciences, Allied Health Sciences, and Arts and Sciences. HITS is a part of the most illustrious Hindustan Group of Institutions which caters to the academic needs of over 18,000 students. In 2023, the QS Asian University Rankings ranked us between 601-650 bands in the overall category, 40th rank in India, and 3rd rank in staff with a Ph.D. in India. The QS I-GAUGE recognized HITS with the QS Advanced E-learning Excellence for Academic Digitization by incorporating advanced digital technology in education and the best online academic practices award. Times Engineering Institutes Ranking Survey ranked HITS 3rd among the top Engineering Institutes in Tamil Nadu. In the 2022 ranking list, the National Institutional Ranking Framework (NIRF) has ranked us in the 151-200 band in the overall category. We have also achieved an overall rank between 400-600 in the Global Times Higher Education (THE) Impact Rankings. HITS has the unique distinction of having received an international accreditation from the IET (UK).

About the School of Pharmacy

With an aim to be a global leader in Pharmacy education, research, and services, the School of Pharmacy is committed to providing transformative and holistic learning experiences in Pharmacy and Allied areas in a collaborative and diverse environment that is designed to develop leaders who can address the medication needs of the citizen. The School of Pharmacy provides ample opportunities to learn about the Pharmaceutical industry that includes the production of quality medicines, technology, R & D, operations, and patient care.

The curriculum is designed by academic practitioners, who nurture and develop young minds into responsible Pharmacy Professionals, who will contribute ethically to the future of the Pharmacy Industry, Hospitals, Society, and the Healthcare system at large. Programmes are delivered through extensive practicals in laboratories in addition to theoretical study. Our University's futuristic healthcare model is an ideal place for an aspiring pharmacist to gain experiential training from the most accomplished professors in the industry.

About the Programme

Bachelor of Pharmacy (B. Pharm.) is a four-year undergraduate programme, divided into 8 semesters, where students study the methods and process of preparing drugs, and how medicines and drugs are dispensed. Anyone who aspires to be a Pharmacist must undertake this course so that they have in-depth knowledge of science and medicine. B. Pharm. imparts useful knowledge about biochemical science and healthcare business. The Pharmacy Council of India (PCI), New Delhi, is the regulatory body that is responsible for laying down all norms and regulations for the B. Pharm. programme.



Vision

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To become an eminent institute by providing excellent pharmaceutical education and research to improve healthcare needs of community and industries

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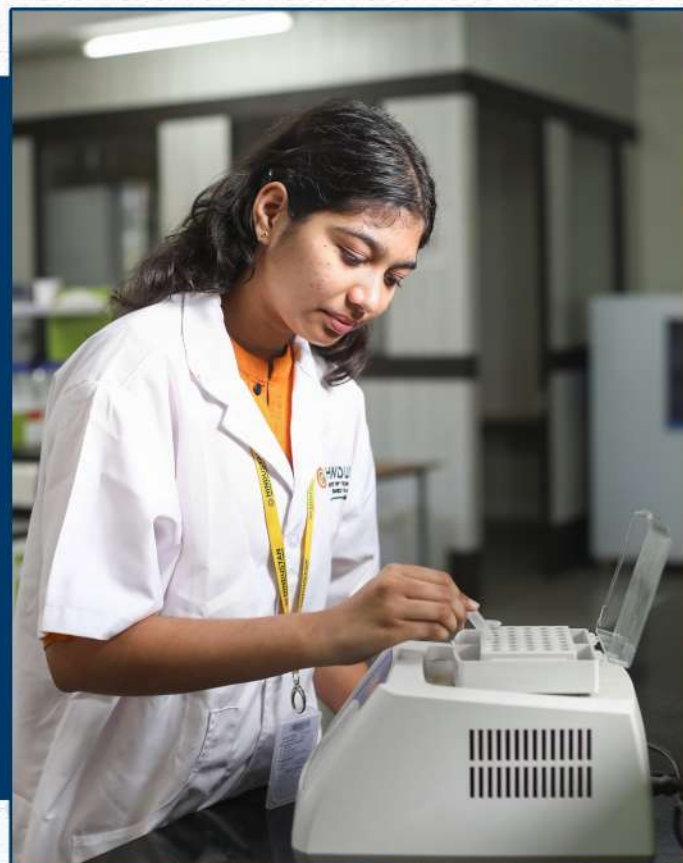
Mission

- » To promote quality Pharmacy education and training through innovative teaching-learning process
- » To collaborate with industries to address the challenge of quality and novel medicines
- » To encourage innovation towards designing solutions to meet healthcare needs
- » To contribute to the advancement of community pharmacy and public health
- » To empower young minds with value-based education, communication, and entrepreneurial skills



Programme Objectives

- » To provide technical expertise along with the ability to demonstrate core competence for analyzing and problem-solving in multiple pharmaceutical aspects.
- » To make awareness about the rapidly changing pharma industry profession along with the emerging areas of science and technology
- » To inculcate an attitude and ability to observe, research, and experiment to find apt solutions
- » To train and develop students as techno managers, self-motivation, working teamwork, leadership and proactive to be successful in their profession and organization



Programme Delivery

- » Lectures by faculty, Guest Lectures, Seminars, and Conferences by various national and international professional bodies.
- » Case studies based on community and industrial pharmacy.
- » Active Learning pedagogy involves Problem-Based Learning (PBL) and Project Based Learning approach for effective learning.
- » Awareness programs in Tuberculosis, Obesity, HIV - AIDS, Diabetes, etc
- » Winter, Summer, and Industry Internship
- » Industry, Hospitals, and Laboratory Visits



Salient features

- » Well-established laboratories provide insightful training in Pharmaceuticals, Medical Prescription, Drug Dispensing, Quality Control, and Drug Formulations.
- » Training and guidance by experienced faculties alongside seminars with Industry leaders.
- » MOUs and collaboration with top Pharmaceutical firms to facilitate projects, courses, workshops, etc.
- » Practical exposure through internships, industry visits, and projects related to Pharmaceutical companies, outlets, hospitals, dispensaries, etc.



Duration

This is a 4-year Programme that is spanned across 8 semesters and 6 semesters (lateral entry), approved by the Pharmacy Council of India (PCI) under regulations 2014.

B. Pharm. Programme Structure

First Year

- Human Anatomy & Physiology I
- Pharmaceutical Analysis I
- Pharmaceutics I
- Pharmaceutical Inorganic Chemistry
- Communication skills
- Remedial Biology/Remedial Mathematics
- Pharmaceutical Organic Chemistry I
- Biochemistry
- Pathophysiology
- Computer Applications in Environmental Sciences

Second Year

- Pharmaceutical Organic Chemistry II
- Physical Pharmaceutics I
- Pharmaceutical Microbiology
- Pharmaceutical Engineering
- Pharmaceutical Organic Chemistry III
- Medicinal Chemistry I
- Physical Pharmaceutics II
- Pharmacology I
- Pharmacognosy and Phytochemistry I

Third Year

- Medicinal Chemistry II
- Industrial Pharmacy I
- Pharmacology II
- Pharmacognosy and Phytochemistry II
- Pharmaceutical Jurisprudence
- Medicinal Chemistry III
- Pharmacology III
- Herbal Drug Technology
- Biopharmaceutics and Pharmacokinetics
- Pharmaceutical Biotechnology
- Quality Assurance

Fourth Year

- Novel Drug Delivery System
- Instrumental Methods of Analysis
- Practice School
- Pharma Marketing Management
- Pharmaceutical Regulatory Science
- Pharmacovigilance
- Quality Control and Standardization of Herbals
- Computer-Aided Drug Design
- Cell and Molecular Biology
- Cosmetic Science
- Experimental Pharmacology
- Advanced Instrumentation Techniques
- Dietary Supplements and Nutraceuticals
- Project Work

Pharmacy Laboratories

- » **Anatomy & Physiology:** Anatomy of internal and external structures of the body and their physical relationships.
- » **Pharmaceutics:** Training for preparation of dosage, analysis of the content of dosage forms.
- » **Pharmaceutical Chemistry:** Practical testing of chemicals, studying the nature of chemical reactions Preparation of compounds.
- » **Pharmaceutical Analysis:** Analysis of drug samples for assessing the percentage of purity
- » **Pharmacology:** To study the human body and the effects of drugs.
- » **Pharmacognosy:** Practical analysis of medicinal plants learn to identify the plant and medicinal properties.
- » **Pharmacy Practice:** To study clinical therapeutics and pharmacy practice.



Campus

HITS is known for its' beautiful buildings, large campus, world class facilities and sports culture. Campus has a modern structure, academic spaces include library, studio, labs, workshops, and amphitheatres. Other amenities include eat out, guesthouse, student accommodation for girls and boys and Wi-Fi.

Students Clubs

Students on campus can pursue their passions through clubs like Photography club, the dancing club, the singing club, storytelling club, book reading club and sports club are engaged to organize various competitions and events.

Student Council

University has a elected Student Council which contributes to the academic and disciplinary proceedings. Committees are Student Welfare Committee, Sports Committee, Cultural Committee and Youth Leadership Development Committee.

Transportation

HITS offers transport facilities through its fleet of buses which brings in students from Chennai and its suburban.

Accommodation

University has accommodation for boys and girl with canteen facilities.

Library

The library has a huge bank of books. It has assigned bookshelves for each school of the institution. It has books, journals, magazines, e-resources, and databases.



Scope & Career Prospects

After B. Pharm. degree, students can either pursue higher studies (M. Pharm., Pharm. D., Ph.D., M.B.A.) or seek employment opportunities in the Pharmacy sector. They can open their Pharmacy by registering themselves under State Pharmacy Council. Students can find equal jobs in both public and private sectors such as Technical Pharmacy, Clinical Pharmacy, Medical Dispensing Store, Health Centres, and Food & Drug Administration. Job opportunities are available in:

- » Production & Manufacturing
- » Formulation & Development
- » Quality Assurance and Control
- » Drug Regulatory Affairs
- » Drug Inspector
- » Research & Development
- » Clinical Research Scientist
- » Cosmetic Industry
- » Hospital Pharmacy
- » Community pharmacist
- » Chemist Shop
- » Entrepreneurship



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Admissions

+91 86680 93935 / +91 86680 93936

Contact Us

1800 425 44 38

info@hindustanuniv.ac.in

Campus Address

1, Rajiv Gandhi Salai (OMR), Padur, (Via) Kelambakkam,
Chennai - 603 103.

www.hindustanuniv.ac.in



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