

CHITKARA
UNIVERSITY



INDUSTRY ENDORSED PROGRAMS IN
PHARMACY | ALLIED HEALTHCARE | NURSING
NUTRITION | OPTOMETRY | PHYSIOTHERAPY

VIEWBOOK 2025



FOR THOSE SEEKING A CAREER WITH A PULSE

Pharmacy Programs

Approved by Pharmacy Council of India

- 4-Year B. Pharmacy (Punjab | Himachal Pradesh)
- 6-Year Doctor of Pharmacy (Pharm. D)
- 3-Year Pharm. D (Post-Baccalaureate)
- 2-Year Master of Pharmacy (M. Pharm)
- 2-Year M.Sc in Pharmacovigilance & Clinical Research

Allied Healthcare Programs

- 4-Year Bachelors in Medical Laboratory Science (MLS)
- 4-Year B.Sc in Medical Radiology & Imaging Technology (MRIT)
- 4-Year B.Sc in OT & AT
- 2-Year M.Sc in Clinical Embryology

Nutrition & Dietetics Program

- 4-Year B.Sc (Hons.) in Nutrition & Dietetics

Nursing Programs

Approved by Indian Nursing Council of India

- 4-Year B.Sc in Nursing (Basic) [Punjab | Himachal Pradesh]
- 2-Year Post Basic B.Sc in Nursing
- 2-Year M.Sc in Nursing

Optometry Program

- 4-Year Bachelor of Optometry (B. OPTOM)

Physiotherapy Program

- 4.5-Year Bachelor of Physiotherapy (BPT)

Scan this QR Code to
get more information
about our Healthcare
& Pharmacy Programs





Dr. ASHOK CHITKARA
CHANCELLOR
CHITKARA UNIVERSITY

Selecting a university program marks the beginning of an exciting journey in your life. It expands your opportunities as well as brings you life changing experiences.

Students from around the world are attracted to Chitkara University for several reasons. This includes our commitment to teaching excellence, research that makes a difference, industry partnerships and our tailored courses.

We are invested in the growth of every student and ensure they evolve into well rounded personalities, subject experts, creative thinkers and future-facing individuals - set to grapple with real world challenges and become changemakers of tomorrow.

We look forward to welcoming you as a part of the Chitkara University fraternity.

STRONG ACADEMIC HERITAGE

Dr. MADHU CHITKARA
PRO CHANCELLOR
CHITKARA UNIVERSITY

Chitkara Education brings with it a reputation for excellence and innovation that has been earned through years of serving the career-needs of the student community.

Chitkara University is known and trusted by the best of employers for preparing graduates who have the knowledge and skills they need to succeed in their workplace.

There are many reasons for choosing Chitkara University. Our students go on to achieve successful careers. We teach in a hands-on and responsive manner. We provide a wonderful learning atmosphere and our research is world-class.

Our industry-relevant curriculum, global exposure, inclusive pedagogy, faculty mentoring and student resilience are all in sync. Our excellent placements bear testimony to all of this.



“The learning environment at **CHITKARA UNIVERSITY** is a unique combination of illustrious faculty, brilliant & intellectual students and proactive industrial collaborations.”

CHITKARA UNIVERSITY



CHITKARA UNIVERSITY PUNJAB

Chitkara University is a UGC recognised University with the right to confer degrees as per the Sections 2(f) and 22(1) of the UGC Act, 1956 and is established by the Punjab State Legislature under, "The Chitkara University Act".



CHITKARA UNIVERSITY HIMACHAL PRADESH

Chitkara University is a UGC recognised University with the right to confer degrees as per the Sections 2(f) and 22(1) of the UGC Act, 1956 and is established by the Himachal Pradesh State Legislature under "The Chitkara University Act".



RECOGNISED FOR EXCELLENCE



Chitkara University has been awarded **A+ rating by National Assessment and Accreditation council (NAAC)** which places us among the Top 5% of Higher Education Institutions in India.



Our programs have been ranked among the **Nation's Best in the 2024 NIRF Ranking, 11-50 in Innovation Category and 90 in University Category.**



We are proud to be ranked among the **World's Best** in the **QS World University Rankings.**



The University has achieved the **13th Rank in India and 401-600 Globally**, reflecting its comprehensive dedication to **advancing the Sustainable Development Goals.**



Chitkara University **Ranked 1st in The Country in Research Quality** and **Ranked 601-800 Globally.**



Chitkara University achieves **Top Global Rankings in WURI 2024.**



Year after year, Chitkara University has been ranked among the **Top 10 Universities** of the country for filing maximum patents.

Consistently ranked high by:



CHITKARA
UNIVERSITY



THINGS WE'RE PROUD OF

THERE ARE SO MANY REASONS TO CHOOSE CHITKARA UNIVERSITY. HERE ARE A FEW REASONS WHY WE BELIEVE YOU'LL LOVE US AND BE PROUD TO JOIN US.

WORLD-CLASS RESEARCH EXCELLENCE



With more than 200 patents and project funding from leading organisations such as DST and HP, our researchers, staff and students work across disciplines to extend the boundaries of knowledge. We are being recognised nationally for pioneering research in Nanotechnology, Mobile Learning, Robotics, Renewable Energy and Mechatronics.

TOP SKILLS



There is an intense focus on developing communication skills, team work and leadership for each and every student.

STRONG ACADEMIC HERITAGE



Chitkara University has been established and managed by passionate academicians with the sole mission of making each and every student "Industry ready".

INDUSTRY-LED COURSES



We maintain close links and associations with leading blue-chip companies to deliver our academic programs and ensure that our courses are relevant, practical and deliver the skills in demand, allowing our graduates to hit the ground running.

LEARNING BY DOING



Our curriculum is based on the framework of strategic competitiveness, which teaches the concepts of creativity, entrepreneurship, innovation, sustainability, leadership and incisive decision making.

TOP 20 RANKING



Chitkara University has been consistently ranked among the top 20 Private Universities of the country.

COUNTED AMONG THE BEST



Our programs are consistently ranked among the top 50 in the country.



5 STARS

All our institutions and academic programs are recognised and approved by UGC and various regulators such as NAAC | AICTE COA | NHMCT | INC.

CAMPUS PLACEMENTS



Chitkara University has established an unassailable reputation for strong on-campus recruitments. Our students have gained employment in diverse professional roles and areas across the world. From managing hotels to discovering new drugs to helping patients in hospitals to analysing the stock market, a Chitkara University degree can lead to varied and rewarding career paths.



MORE CEOs

Industry leaders from across sectors visit our campus and interact with our faculty as well as student community to groom them for future leadership roles.

LEARN FROM THE BEST



You'll work with some of the brightest and most inspiring academics, lecturers and researchers in the world.

LEADING INNOVATION



Chitkara Innovation Incubator helps turn students' business ideas into reality. Student ventures with scalable, commercial potential are given access to high tech, a collaborative office space, and are paired with industry mentors to develop scalable business plans and market testable products and services.

MODERN FACILITIES



Chitkara University has made huge investments in developing student facilities - giving our students access to state-of-the-art labs, design studios, libraries, sporting and social facilities.



TRAVEL THE WORLD

At Chitkara University, we offer over 170 exchange destinations to consider.

BEST LOCATION



With a high quality of living and vibrant student mix, Chandigarh, also known as City Beautiful, has rightfully earned its place in the 'Times 15 Best Asian Spots'.



SAFE & SOUND

We take great pride in looking after our students. We have zero tolerance to ragging.



City Beautiful Chandigarh

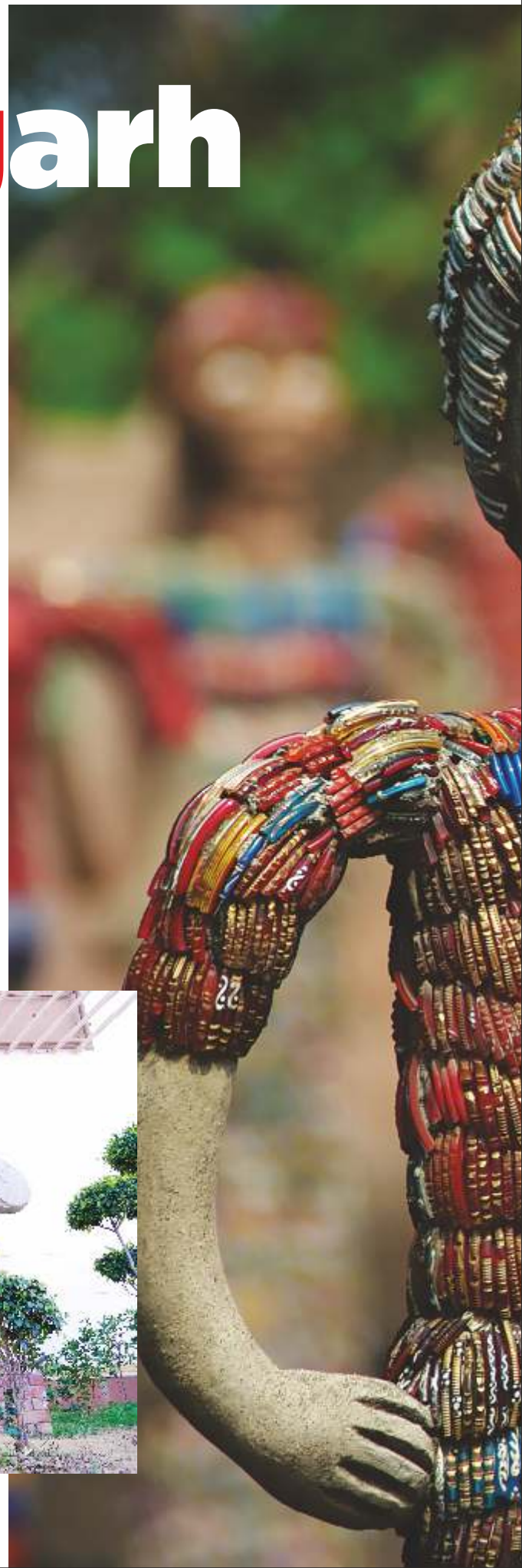
A MILLION PEOPLE;
INFINITE POSSIBILITIES

Chandigarh is undergoing rapid urbanisation and the transformation has been holistic and all-inclusive. Over the years, the city has made remarkable progress in terms of physical infrastructure and business environment and has emerged as an economic growth centre with one of the highest per capita incomes in India.

Ample opportunities are available to work and grow in the IT, BPO and pharmaceutical sectors in the region. It has proven to be a magnet for potential employers and employees.

The open hand is the official emblem of Chandigarh; it symbolises the city's philosophy of being "open to give" and "open to receive". Chandigarh has seen the growth of some major start-ups over the last few years. The city has kept pace with the ever evolving education sector to become the one-stop destination for all education needs. This makes Chandigarh ideal for students who wish to enjoy the blend of rich culture of city life and the peaceful environment that this city offers.

Chandigarh is easily accessible from Delhi, Haryana, Punjab, Himachal Pradesh and other metropolitan cities through various modes of transportation, viz. buses, trains and direct flights, both national and international, from Dubai, Singapore, Sharjah, etc.







THE LARGEST CAMPUS BASED INCUBATOR IN NORTH INDIA

Chitkara Innovation Incubator Foundation (CIIF) is one of the largest Government supported incubators in North India with more than 200+ start-ups. It is designed to provide aspiring student entrepreneurs with the education, resources and funding to start and expand their own businesses. In line with the Government of India's initiative of Startup India (<https://www.startupindia.gov.in/>), CIIF empowers founders who are and will be solving some of the world's most pressing challenges through technology-based solutions.

Key facts:

- Startups incubated since inception: 270+
- Total valuation of the incubated startups: USD 46 million
- Total mentors: 81+
- Solutions commercialised: 79+
- Jobs created by startups: 2400+
- External funding raised by the startups: USD 3.4 million
- Total no. of Patents filed by Incubates: 470+
- Current Incubates: 79+
- Ecosystem Partnerships & collaborations: 59+
- Supported & approved by Department of Science & Technology, Govt. of India

SUPPORTED BY



Department of Science and Technology
Ministry of Science and Technology
Government of India



Ministry of Electronics and
Information Technology
Government of India





Chitkara University incubated startup "Chai Nagri" raises \$122k at Investor Fest

ENTREPRENEURSHIP & INNOVATION SPECIALISATION

Whether you already have an idea for a startup or are still brainstorming, Chitkara University's specialisation in Entrepreneurship and Innovation offers workshops to help you develop and refine your strategy before you jump into building an actual company. You can take part in Chitkara University's 'Launch Your Big Idea' program and gain the necessary training and resources to prepare your startup for success - plus a chance to pitch your idea and win Seed funding. You can also connect with like-minded student entrepreneurs through events hosted by the Chitkara Innovation Incubator.

Chitkara University's Entrepreneurship programs for our Business graduates is designed to prepare future entrepreneurs with the skills and knowledge to start their own businesses. The specialisation will focus on identifying, analysing and evaluating global and local business opportunities, creating new independent business ventures or new ventures within existing firms; developing creativity and understanding innovation; environment assessment for new ventures; marketing research and developing effective business plans to obtain financing, legal issues related to starting and operating a family-owned business.

Major learnings from these programs will be:

- Be critical thinkers who are capable of identifying business opportunities by using cutting-edge analytical tools.
- Communicate clearly to develop and evaluate business plans and funding proposals.
- Apply relevant financial principles to assess start up capital needs, cash flow needed for growth, break-even analysis and pre- and post-funding.
- Effectively understand and implement a marketing plan for a new venture.

GET MENTORED BY LEADING ENTREPRENEURS

Gain invaluable insights through mentorship with industry pioneers and startup leaders. Gain firsthand knowledge from their experiences, strategies, and challenges as they share their secrets to success. This exclusive opportunity empowers you to forge valuable connections, sharpen your vision, and cultivate the skills essential for thriving in today's fast-paced business environment. Elevate your journey toward success.

A woman with long dark hair, wearing a bright yellow blazer over a black top, is speaking into a microphone. She is wearing a gold watch on her left wrist and a ring on her finger. The microphone has a white foam cover with a logo. In the background, there are pink flowers and a blurred purple and white backdrop.

Vineeta Singh
CEO & Co-Founder,
Sugar Cosmetics



Ankur Warikoo
Entrepreneur, Angel Investor
and Bestselling Author



Ghazal Alagh
Founder, Mamaearth



Raj P Narayanam
Founder, Zaggle



Aman Gupta
Co-founder, boAt Lifestyle



Ananya Birla
Chairperson & Director
Chaitanya India Fin Credit Pvt Ltd.

Embark on Research from Day One

The university with one of
the highest number of
patents in the country*

* According to 2 years ranking by the Office of the Controller General of Patents, Designs, Trade Marks and Geographical Indications, India



Year after year, Chitkara University has been ranked among the Top 10 Universities of the country for filing maximum patents which speaks volumes of our research team, state-of-the-art infrastructure and intensive focus on working with new ideas and technologies.

3600+

Patents

8000+

Citations

49+

Centres of Excellence

99+

H-Index

80 Crore

Research Grants

12+

Joint research projects
with Global Universities

One of the largest University grants' recipient
for the European Commission Erasmus+ Programme

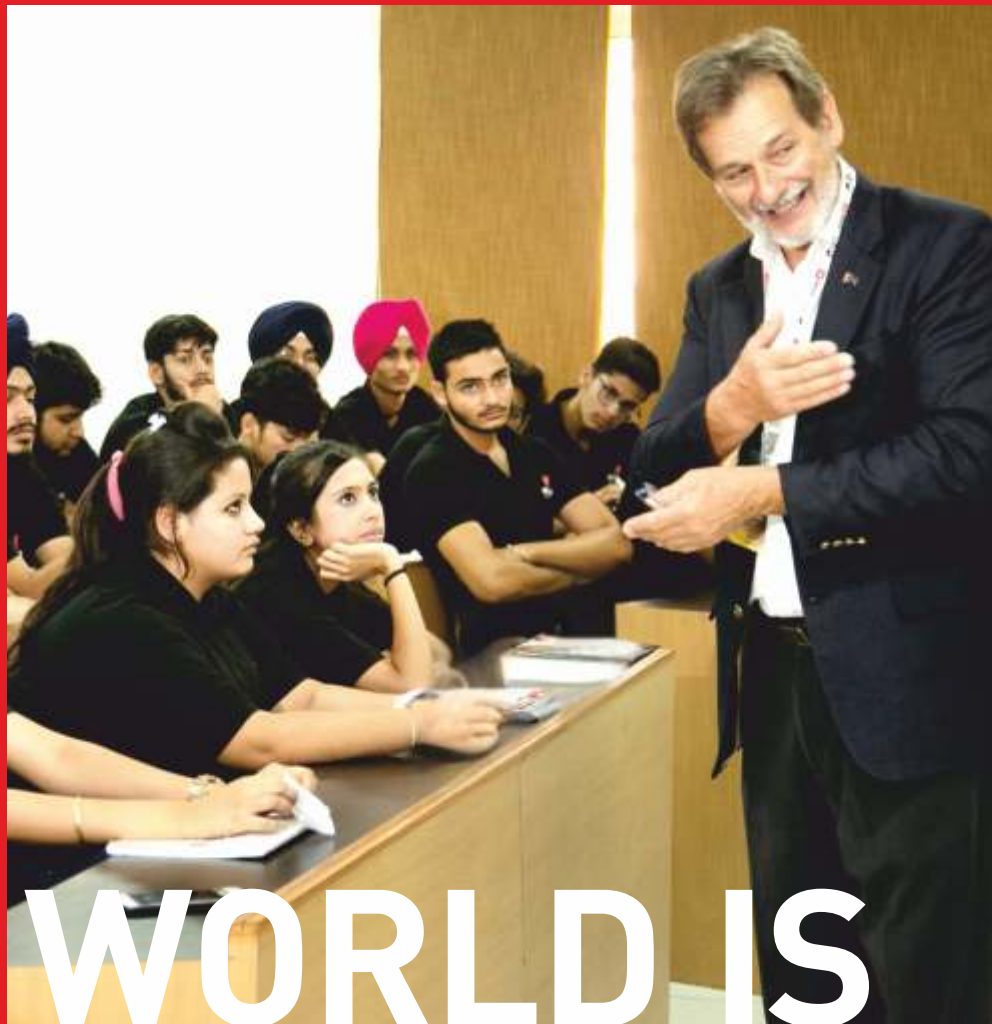
At Chitkara we believe every student benefits from being taught by experts active in research and practice. You will discuss latest ideas, research, discoveries and new technologies in seminars. Students will actively be involved in a research project themselves. Through Chitkara University Research and Innovation Network (CURIN), our researchers, staff and students work across disciplines to extend the boundaries of knowledge. 49 Centres of Excellence under CURIN build and sustain Chitkara University's competitive advantage through leadership. These centres are the locus of research for collaborative groups of investigators pushing the frontiers of knowledge forward.



**The Global
University**

Live independently.
Gain cultural awareness.
Expand your social network
around the world. Make new
friends who may become
your future business
collaborators in an
increasingly interconnected
world.

Learn in a classroom on a
different continent.
Experience working in the
real world, around the world.
There are so many new
experiences awaiting you at
Chitkara University.



THE WORLD IS

INTERNATIONAL STUDENT EXCHANGE PROGRAMS

Gain a global perspective

Chitkara University's robust international exchange program with more than 200 overseas universities gives you the opportunity to experience living on your own in a different country. The networks you build and experiences you encounter will give you a more global and culturally sensitive perspective.

SUMMER STUDY PROGRAMS

Immerse in overseas
experience

Summer Programs are short duration programs of 2-4 weeks on various specialisations. It adds to the international exposure of the students.

SEMESTER EXCHANGE PROGRAMS

Foster stronger bilateral ties

Chitkara students have the option to finish the last half part of their degree programs at our partner Universities. Students visit Partner Universities for six months to one year for completing their semesters abroad.

Chitkara University's approach to Global Education rests on the belief that every student needs global knowledge and a mindset. Our graduates will get many opportunities to globalise their University experience.



OVERSEAS STUDY MISSIONS

Gain insights from industry leaders

Overseas study missions bring you right into the heart of multinational organisations around the world, giving you current insights on how they function through site visits. You will also experience a networking journey with prominent industry leaders, opening doors to a world of opportunities.

OVERSEAS INTERNSHIPS

Step into the global marketplace

Experience for yourself how industries and businesses operate, broaden your perspective and apply your skills and knowledge to real-world business operations.

GLOBAL EXPOSURE

Cultivate empathy

We regularly invite faculty from top Global institutions across the world. This exposure helps our students understand diverse cultural and educational contexts.



Ministry of Human Resource Development
Government of India

Chitkara University's Pharmacy program has been ranked **19th** in the annual **NIRF Ranking 2024** out of more than 450+ pharmaceutical colleges in the country.

Pharmacy Programs

Pharmacy programs at Chitkara University, offered at both the Punjab and Himachal Pradesh campuses, are approved by the Pharmacy Council of India. The university has emerged as a distinguished center of excellence for Pharmaceutical Sciences in North India, consistently ranking among the top 50 pharmacy institutions in the country. This achievement reflects the university's multi-disciplinary curriculum, strong industry partnerships, and research-driven faculty, positioning Chitkara University as a leader in pharmaceutical education.

B. Pharm*

4-Year Program

Undergraduate program with a strong pharmaceutical industry focus and intensive exposure for a period of 6 months and more.

Pharm. D (Post-Baccalaureate)

3-Year Program

Students have an option to pursue lateral entry into Pharm. D program. B. Pharm candidates can pursue this program. The candidate will join the program in the 4th year of Pharm. D and will subsequently complete the course.

Pharm. D

6-Year Program

A Post-graduate program with a strong Pharmaceutical industry focus and intensive practical exposure.

M. Pharm

2-Year Masters Program

Postgraduate program with a strong pharmaceutical / clinical industry focus and intensive practical exposure for a period of 12 months and more with specialisations in Pharmaceutics | Pharmacology Drug Regulatory Affairs Pharmaceutical Chemistry Pharmacy Practice.

M.Sc in Pharmacovigilance & Clinical Research

2-Year Masters Program

Aimed at creating skilled Pharmacovigilance professionals who can work with leading Pharma companies and Clinical Research Organisations (CROs) worldwide.

*Available at both the Punjab and Himachal Pradesh campuses

Career Options

A career in Pharmacy unfolds a vista full of opportunities leading to a golden future for young aspirants in areas such as:

- **Research & Development**

M. Pharm and PhDs are particularly in great demand in the various areas of Pharmaceutical R&D.

Areas where professionals are required:

- **New Drug Discovery Research (NDDR)**
Discovering a new drug has assumed prime importance in the post-GATT era where a pharmaceutical company has to ensure that it is selling original research products.
- **Process Development (P&D)**
One of the important areas in bulk drugs industry is developing viable processes for the manufacture of drugs and intermediates for their commercial production.
- **Formulation & Development (F&D)**
The success of any pharma company lies in the quality of its products, i.e., its formulations & dosage forms and constant research is required to develop new products that are more patient compliant. Formulation development ensures this.
- **Clinical Trials, Bioequivalence Studies, Toxicological Studies**
These are some of the areas of clinical research which are in high demand as they are involved in the systematic evaluation of potential drug substances prior to getting them approved by the authorities.
- **Hospital Pharmacy**
Another opening for a Pharmacy professional is "Registered Pharmacist" in the hospitals or drug stores. This is a very sought after profession especially in countries like the U.S.A., Canada, Middle East and European countries. This is a key position and the Pharmacist plays an important role from preparing prescription to the patient's medical history after the medical doctor has diagnosed the disease.

- **Production & Manufacturing**

A Pharmacy professional can work as a production person, involved in the production of bulk drug and intermediates or formulations and dosage forms. Industries in the cosmetics, soaps, toiletries segment, dental products, blood and plasma products also hire pharmacy professionals.

- **Analysis & Testing**

Quality Control (QC) and Quality Assurance (QA) are the most integral areas of the drug and pharmaceutical industry. Highly specialised and trained staff is required to handle sensitive analytical procedures & sophisticated equipment.

- **Marketing**

The Pharma Sales & Marketing is a highly technical field and offers excellent opportunities for the pharmacy graduates. Pharmacy graduates are absorbed as product executives or managers and can progress through group product manager and brand manager positions and rise to national level manager status.

- **Academics**

Excellent opportunities for professionals are available in the teaching profession also. Besides teaching, academic related opportunities involve positions in Research Posts and Training Programs, Documentation, Library Information Services and Pharma Journalism.

- **Entrepreneurship Opportunity**

All Pharmacy graduates (B. Pharm, Pharm. D) are entitled by PCI Registration and FDA License to take up manufacturing, wholesale and retail business.

Campus Recruitment

Following companies regularly hire our Pharmacy graduates for internship and full-time positions:

 Abbott A Promise for Life	 Alembic Sustaining Lives ever	 ALKEM	 APCER LIFE SCIENCES	Baxter	 BAYER
 Biocon	 B. BRAUN	 CADILA Pharmaceuticals	Cipla	Cognizant	 Dr. Lal Path Labs
Dr. Reddy's	 Eisai	 ESS	 FRESENIUS KABI caring for life	 glenmark	 gsk
 INTAS	Johnson & Johnson	 JUBILANT Biosys	 LUPIN Pharmaceuticals Ltd.	 MACLEODS	 Mankind
 MOREPEN The Joy Of Guarding Together	 Max Bupa Health Insurance	 MAX Healthcare	 Medtronic	 Novo Nordisk	 NOVARTIS
 OVERSEAS THE COMPANY THAT CARES.	parexel.	 Path Kind	 Peters SURGICAL	 PHARMALEX	 POLYMED MEDICAL SUPPLIES We Care As We Care
 Roots Analysis	 SANOFI	 Soterius™ ACCELERATING INNOVATION	 SUN PHARMA	 Syneos Health	ThermoFisher SCIENTIFIC
 torrent PHARMA	 VENUS Cosmetics	 Venzas Diagnostic Laboratory	WNS	 wipro	Zydus



B. Pharm

4-Year Bachelor of Pharmacy

Approved by Pharmacy Council of India (Punjab & Himachal Pradesh)

Bachelor of Pharmacy (B. Pharm) is a 4-Year undergraduate program designed to introduce students with the properties and impacts of Pharmaceutical drugs. The program additionally helps students in developing the skills essential to counsel patients about medication and use of drugs.

B. Pharm program at Chitkara University will focus on making our students understand the mechanism of drug action, its dynamics & kinetics as well as visualise and work on laboratory techniques and improvements.

Furthermore, it prepares them to interpret data arising out of research experience into production, quality control & quality assurance.

The program concentrates on preparing the students and training them for industry-ready holistic pharmaceutical care in the practice setting. Students will learn how to use modern Pharmaceutical tools, Software and equipment to analyse & solve problems. The industrial visits and equally important practical sessions ensure students receive a perfect exposure to the real-world situations while learning.



The course has been designed to cater to the requirements of a large horizon of healthcare needs for Pharmaceutical and Formulation Industry, Clinical Pharmacy, Pharmacovigilance, Research & Development of Drugs including Drugs of Natural Origin, Health Regulatory System and Academia. There will be focus on preparing our students for Design Formulation & Synthetic Process as per the needs and specifications of the Pharmaceutical industry.

In addition, the program also concentrates on preparing the students and training them for industry-ready holistic Pharmaceutical care in the practice setting. The industrial visits and practical sessions ensure that students have perfect exposure to the real-world situations while learning.

At Chitkara University, there is huge focus on getting our B. Pharm students industry ready for Pharmaceutical industries, Hospitals, Patent cells, IPR sections, Clinical Research Organisations, Retail Pharmacy and other opportunities. The university also emphasises instilling a strong sense of ethical practices and regulatory compliance within the pharmaceutical landscape, fostering responsible, competent and conscientious professionals.



Pharm. D

6-Year Post-Graduate Program in Pharmacy Approved by Pharmacy Council of India

A Post-graduate program with a strong Pharmaceutical industry focus and intensive practical exposure.

Pharm. D program at Chitkara University is an innovative combination of masters degree and doctoral courses that not only saves time but offers bright career prospects. It's a post-graduate professional degree and the student gets authorisation to use prefix Doctor (Dr.).

This Post-graduate program at Chitkara University will prepare students to provide high quality Pharmaceutical care that has the patient as its focus and optimal drug therapy and health as its goal.

The program imparts knowledge of the chemical, biological, social and clinical sciences that underline Pharmacy, an understanding of the relevance of that knowledge to patient care and the skills to apply that knowledge to specific care circumstances.

The program has been introduced to improve clinical and hospital Pharmacy services in India which is in direct contact with patient healthcare system and authorised to take critical decisions in in-patient prescription.

The Pharm. D degree requires five years of classroom and hospital-based didactic study. It is followed by one year of internship training in a hospital setting for Clinical Management of in-patients, in addition to ongoing practicals and research project.

Chitkara University's Pharm. D program equips students with comprehensive skills to deliver patient-centric pharmaceutical care, fostering competent and conscientious professionals for pivotal roles in clinical and hospital pharmacy services.

Program Objectives

Pharm. D curriculum is designed to produce a scientifically and technically competent Pharmacist who can apply this education in such a manner as to provide maximum Healthcare services to patients.

Students are provided with the opportunity to gain experience in patient's close cooperative relationships with health practitioners. It is the goal of Pharmacy Schools to prepare Pharmacists who can assume expanded responsibilities in the care of patients and assure the provision of rational drug therapy.

Program Structure

Some of the important subjects taught in the various semesters of the 6-Year program are:

- Human Anatomy & Physiology
- Pharmaceutics
- Pharmaceutical Inorganic Chemistry
- Pathophysiology
- Community Pharmacy
- Pharmacognosy & Phytopharmaceuticals
- Pharmacology
- Pharmaceutical Analysis
- Pharmaceutical Formulations
- Hospital Pharmacy
- Biostatistics & Research Methodology
- Biopharmaceutics
- Pharmacoepidemiology
- Pharmacoeconomics
- Clinical Pharmacokinetics
- Pharmacotherapeutic Drug Monitoring

Career Opportunities

Pharm. D qualification, as prevalent in U.S. UK, Canada, other European and developed countries, entitles the Pharmacists to prescribe medicines, while the doctor's role is focused mainly on diagnosis. The field of pharmacy presents a diverse array of career pathways, ranging from direct patient care in hospitals to specialised opportunities in research and managed care settings. With a Pharm. D, an individual can register as Pharmacist anywhere in the world and practice at a Hospital, Clinic or Community Healthcare Centre. A Pharmacist can also practice as a Clinical Scientific Expert and Clinical Research Associate.

Some of the potential career pathways are:

- Hospital Pharmacist
- Clinical Pharmacist
- Community Pharmacist
- Specialised Area Opportunities
- Pharmacy Education
- Pharmacoeconomics
- Managed Care
- Home Health Care
- Governmental Agencies
- Community Pharmacy
- Clinic Pharmacy Practice
- Knowledge Processing Outsourcing (KPO)

All the jobs related to Hospital/Clinical Pharmacy, etc. in European/American and other countries are highly paid due to the authority given to the Pharmacist to give prescription and clinical monitoring to admitted patients, while the physicians focus on diagnosis & operative care.

Pharm. D (Post-Baccalaureate)

3-Year Post-Graduate Program in Pharmacy

Approved by Pharmacy Council of India

Students have an option to pursue lateral entry into Pharm. D program.

B. Pharm candidates can pursue Pharm. D (Post-Baccalaureate) program.

The candidate will join the program in the 4th year of Pharm. D and subsequently complete 4th, 5th and 6th year.



2-Year Master of Pharmacy (M. Pharm)

We are offering the following 2-Year Masters Degree Program for the current academic year:

- M. Pharm - Pharmaceutics
- M. Pharm - Pharmacology
- M. Pharm - Drug Regulatory Affairs
- M. Pharm - Pharmacy Practice
- M. Pharm - Pharmaceutical Chemistry



M. Pharm in Pharmaceuticals

M. Pharm (Pharmaceutics) program is meticulously designed leading to specialisation in formulation development, manufacturing technology, and process development areas. These specialised areas are the bedrock for the intricate art of manufacturing both traditional pharmaceuticals and innovative, trailblazing Drug Delivery Systems that are revolutionising the industry.

During the initial year, students are fully engaged in an extensive curriculum that combines theoretical knowledge with practical applications, encompassing a wide spectrum of topics including Dosage Form Design, Advanced Pharmaceutical Methods of Analysis, Drug Regulatory Affairs, Biopharmaceutics and Pharmacokinetics, Dosage Form Technology, Advances in Industrial Pharmacy, and Novel Drug Delivery Systems.

In the second year, students actively participate in immersive projects focusing on the key elements of Formulation Development, Stability Studies, and Process Validation, tailored specifically to address the requirements of both conventional and cutting-edge Drug Delivery Systems.

The program's distinctive attributes include ongoing engagement with industry leaders such as Nectar Life Sciences, Abbott Healthcare, Unichem, Clinsys, Arbro Pharma, Dr. Reddy's Labs, and various other esteemed organisations, fostering an environment conducive to academic excellence, vibrant conferences, and successful placements.



M. Pharm in Pharmacology

This program leads to specialisation in Pharmacology, which is an integral part of the drug discovery and drug design processes. These processes deal with the identification of lead molecules that could have potential therapeutic activity due to specific molecular and receptor affinity, and analogous structure to specific sites and proteins in the body.

In the first year, the Program covers theoretical & practical sessions in subjects including Molecular Pharmacology; General Pathophysiology; Advance Pharmacology and Pharmacotherapeutics I and II; Clinical Research methodologies; advanced Pharmaceutical Methods of Analysis; Drug Regulatory Affairs; Quality Assurance and Biostatistics; and other subjects.

In the second year of the program, students take-up projects that are aimed at developing and exploring novel receptor targets and mechanisms for drug action in the pathophysiological stages of the disease.

Upon completion of the program, graduates are equipped with an in-depth understanding of Pharmacology, enabling them to navigate the intricate landscape of drug discovery and design with finesse. Our alumni have gone on to make significant contributions to the field, driving innovation and advancements in therapeutic interventions, and securing promising roles in leading pharmaceutical research institutions and industry.



M. Pharm in Drug Regulatory Affairs

This program delivers a comprehensive insight into processes and protocols that meticulously govern pharmaceutical regulations on a global scale. In an increasingly interconnected global market, ensuring compliance with regulatory bodies such as the USFDA in the United States, MHRA in the UK, EMEA in Europe, PMDA in Japan, and CDSCO in India is critical for successful product approval and market access.

Through an in-depth exploration of organisational structures, the program equips students with the knowledge and skills to adeptly navigate the intricate documentation requirements for submissions and dossiers, including the preparation of DMF & CMC documents, CTD & CTD documents, fostering a thorough comprehension of the regulatory landscape.

Equipped with specialised knowledge and practical expertise, graduates of this program are positioned to assume key positions within regulatory bodies, pharmaceutical companies, and research institutions, contributing significantly to the advancement and regulation of the global pharmaceutical industry. Possessing requisite knowledge for successful market access, including safety, efficacy, and adherence to procedural protocols, these professionals play a crucial role in ensuring the safety and quality of pharmaceutical products worldwide.

Graduates with a specialisation in M. Pharm Drug Regulatory Affairs are sought after for their expertise and are often remunerated generously, reflecting the high demand for their specialised skill set in the pharmaceutical industry.



M. Pharm in Pharmacy Practice

M. Pharm in Pharmacy Practice offers specialisation in the methodologies, regulations, and control of Clinical Drug Development. The program explores the intricate process of clinical development, providing students with a deep understanding of safety, efficacy, and dosing through Phase I-IV clinical trials in human populations.

The curriculum covers a broad range of subjects, including Pharmacology & Therapeutics, Clinical Research Methodologies, Clinical Drug Development, Advanced Pharmaceutical Analysis, Drug Regulatory Affairs, Recent Advances in Pharmacology, and Quality Assurance & Biostatistics. Second-year clinical projects provide practical experience in hospital in-patient/out-patient settings, offering hands-on learning in collaboration with clinical research organisations or pharmaceutical companies.

This program prepares students for diverse career paths, including advanced studies in pharmacy practice, clinical pharmacy, pharmaceuticals, medicinal chemistry, pharmacotherapy, and health systems. Graduates gain practical training in community and hospital pharmacy and are well-positioned for roles such as Intellectual Property (IP) Specialist, Pharmacist, Medical Writer, Medical Representative, and Quality Control Analyst. Additional opportunities in clinical research, research science, and teaching further enhance their professional growth.



M. Pharm in Pharmaceutical Chemistry

This comprehensive two-year post-graduate program focuses on pharmaceutical research and development, with specialised training in drug design, synthesis, and analysis of novel and natural compounds. The curriculum combines theoretical education with hands-on laboratory experience, preparing students to address industry challenges using advanced drug development techniques.

The course offers extensive career prospects in Research and Development, Quality Control, Analytical Research, Regulatory Affairs, Medical Writing, Pharmacovigilance, and other healthcare-related fields. Specialising in Pharmaceutical Chemistry, it explores the intricate world of medicinal chemistry and its critical role in drug discovery and development. Students gain proficiency in organic chemistry, biochemistry, chemical analysis, and pharmaceutical formulation, building a solid foundation for a career in the pharmaceutical industry.

Graduates of the M. Pharm in Pharmaceutical Chemistry are highly sought after and have access to a wide range of opportunities, including roles as Medicinal Chemists, Analytical Chemists, Formulation Scientists, Quality Assurance Specialists, Research Scientists, and positions in Pharmaceutical Sales, Marketing, and Regulatory Affairs.

This program cultivates a deep understanding of medicinal chemistry, equipping graduates with the expertise needed to thrive in academia or in various dynamic roles within the pharmaceutical industry.



2-Year M.Sc in Pharmacovigilance & Clinical Research

in collaboration with

parexel®

Introduction to Pharmacovigilance

Healthcare and Pharmaceuticals is one sector that continues to boom and thrive and is recession proof. With many new drugs hitting the market, there is a growing need for vigilance to prevent and monitor the adverse effect of drugs. There is a complete science to it. It is called Pharmacovigilance.

Pharmacovigilance also known as Drug Safety is the Pharmacological Science relating to the collection, detection, assessment, monitoring and prevention of adverse effects with pharmaceutical products. As such, Pharmacovigilance focuses on adverse drug reactions, or ADRs, which are defined as any response to a drug which is noxious and unintended, including lack of efficacy. Medication errors such as overdose, misuse and abuse of a drug, as well as drug exposure during pregnancy and breastfeeding, are also of interest, even without an adverse event, because they may result in an adverse drug reaction. Simply put, Pharmacovigilance, is drug safety. It can be defined as the study and prevention of adverse effects caused by pharmaceutical products.

Pharmacovigilance is the reason because of which many drugs are withdrawn from or are not even brought into the market at times. The government supports and helps to implement courses in Pharmacovigilance as their primary goal is to ensure students of medicine are aware of the adverse effects of certain drugs.



About Parexel International

Parexel is among the world's largest Clinical Research Organisations (CROs), providing the full range of Phase I to Phase IV clinical development services to help life-saving treatments reach patients faster. Their depth of industry knowledge and strong track record gained over the past 40 years is moving the industry forward and advancing clinical research in healthcare's most complex areas, while their innovation ecosystem offers the best solutions to make every phase of the clinical trial process more efficient.

Parexel is focused on supporting the development of innovative new therapies to improve patient health and they do this through a suite of services that help life sciences and biopharmaceutical customers across the globe. They have a solid reputation across the globe for transforming scientific discoveries into new treatments for patients. From clinical trial and regulatory and consulting services to commercial and market access - their therapeutic, technical and functional ability is underpinned by deep conviction in what they do.

Program Overview

2-year Masters program in Pharmacovigilance is aimed at creating skilled and competent Pharmacovigilance professionals who can work effectively at different levels in Pharmacovigilance departments of leading Pharma Companies and Clinical Research Organisations (CROs) worldwide. This program lets the students learn from industry experts to get Internationally Compliance Pharmacovigilance training based on defined Pharmacovigilance Competency Frameworks (PCF).

The curriculum includes in-depth study of Pharmacovigilance related processes, complemented with hands-on training on ICSR processing, quality management, aggregate report (PSUR/ PBRER/ PADER etc.) writing and compliance management and in turn helps students develop internationally accepted competencies to become world-class Pharmacovigilance Professionals.

This strategically designed M.Sc program is the first of its kind in the country, as it is conducted by the University and managed by industry. Based on International Regulatory & Industry Standards, this program is blended with real-world inputs from Parexel in the form of practical modules and the use of online software for clinical data management. Meanwhile, the 6-month internship with Parexel assures optimal experiential training.

Program Highlights

Some salient features of this program are:

- India's first program conducted by University and managed by industry leader
- Degree program meets international standards of WHO, JCH, FDA and EMEA
- A program accepted globally based on the skill standards
- Regular interaction with industries including leading Pharmaceutical companies and CROs
- 6-months' internship with Parexel International in last semester to get hands-on learning



Careers in Pharmacovigilance

A career in Pharmacovigilance offers a significant scope for Life Science and Pharmacy graduates, involving the critical task of monitoring and analysing drug side effects. These professionals play a pivotal role in ensuring the safety of pharmaceutical products, contributing to the overall well-being of the public.

It is primarily due to the work of these professionals that the drugs in the market that we consume are mostly safe, and those that are found harmful are taken off the market. After a drug side effect is reported, these professionals enter the event in relevant databases, follow up with the case to gather more information and forward these reports to regulatory authorities and other applicable bodies. Pharmacovigilance professionals identify signals in data that may point towards a potential side effect and probe the case further.

The global Pharmacovigilance market size is projected to reach USD 7778 Million by 2027, from USD 4385.7 Million in 2020, at a CAGR of 8.1% during 2021-2027. With the global Pharmacovigilance market poised for substantial growth, professionals in this field can anticipate a promising and rewarding future.

In Pharmacovigilance, professionals typically work as:

- Pharmacovigilance Scientist
- Pharmacovigilance Quality Reviewers
- Pharmacovigilance Quality Analysts
- Pharmacovigilance Medical Safety Writers
- Pharmacovigilance System Specialists

Pharmacovigilance profiles normally include tasks like:

- Recording and reporting adverse reactions received from healthcare professionals and consumers.
- Conducting in-depth interviews with patients and healthcare professionals.
- Developing a thorough knowledge of products.
- Completing periodic safety update reports on drugs and other treatments.
- Writing and reviewing serious adverse effects report and forms.
- Flagging early warning signs of adverse effects of drugs.
- Minimising the risk of serious side effects.
- Completing safety audits.





Healthcare Industry in India

There is no better time to enter into the field of Healthcare Management. Healthcare Industry is growing globally. Consequent to this growth, there is an explosion of opportunities for ALLIED HEALTHCARE professionals. Healthcare has become one of India's largest sectors - both in terms of revenue earnings and employment. Public as well as private players have sensed the immediate demand and have started to strengthen their coverage & services in the Healthcare domain.

India is a vast country with a huge population of 130 Crore. Despite noteworthy improvements, it is still burdened with age old issues like mother & infant mortality, malnutrition and infectious diseases. Meanwhile, rising incidences of lifestyle diseases like Hypertension, Diabetes, Depression and Psychosis have also penetrated urban and rural areas. On top of this, new epidemics (COVID, Swine Flu, Bird Flu) and re-emerging diseases (Dengue, Chikungunya) are posing a huge challenge to the Indian Healthcare space.

India is largely an underserved market with respect to Healthcare facilities. There is a huge scope for improvement and the clamour for affordable and accessible Healthcare has become prominent. Besides, the conventional mode of Healthcare delivery, there is also a growth in demand for sectors like Allied Health Sciences, Public Health, Home Healthcare and Telemedicine.

In order to facilitate the whole gamut of Healthcare, we are witnessing an emergence of Data Informatics and Analytics. This is leading to a paradigm shift in the way Healthcare is being delivered and monitored across the world.

Employment opportunities in Healthcare are growing with each passing year. This has enormously tipped the need for competent & well-groomed professionals. Private as well as public sector jobs are available. The latest window of opportunity has been opened by the Government of India's ambitious, promising and far-reaching National Health Protection Scheme called Ayushman Bharat and the National Commission for Allied and Healthcare Professions Act 2021.

Industry Overview

- India's Healthcare industry is projected to grow to 17% by each year.
- Healthcare industry in India is projected to reach Rs. 50 lakh crore by 2025.
- The Govt. of India is planning to increase Public Health spending to 2.5% of the country's GDP by 2025.
- 100,000 jobs are expected to be created from Ayushman Bharat.
- India is experiencing 22-25% growth in medical tourism and the industry will reach US\$ 9 billion.
- According to a report of NITI Aayog, the Indian government will increase public expenditure on Healthcare from 1.1% to 2.5% GDP in the next four years and to 5% in the following 5 years.
- The Govt. of India aims to increase healthcare spending to 5% percent of the GDP by 2025.

Advantage India

Strong Demand	Healthcare market in India is expected to reach US\$ 426 billion by 2025. It is estimated that India will require 2.07 million more health care staff* by 2030 in order to achieve a doctor-to-population ratio of 1:1,000.
Attractive Opportunities	Rising incomes, greater health awareness, lifestyle diseases and increasing access to insurance will contribute to growth.
Rising Manpower	About 250,000 more health workers are needed to meet the standards set by the World Health Organization - which is 22.8 health workers per 10,000 population.
Policy Support	The world's largest Government Funded Healthcare Scheme, Ayushman Bharat, was launched on September 23, 2018.

Note: * Number of doctors possessing recognised medical qualifications (under I.M.C Act) registered with State Medical Councils | Medical Council of India
<https://scroll.in/article/931857/with-20-medical-professionals-for-every-10000-citizens-can-india-provide-universal-healthcare>





INDUSTRY COLLABORATION WITH FORTIS HEALTHCARE

Fortis Healthcare Limited is a leading integrated Healthcare Delivery Service Provider in India. The Healthcare verticals of the company primarily comprise hospitals, diagnostics and day-care specialty facilities. Currently, the company operates its healthcare delivery services in India, Dubai and Sri Lanka, with 36 healthcare facilities (including projects under development), approximately 4,000 beds and over 415 diagnostic centres.

- Fortis Hospital, Mohali
- Escorts Heart Institute & Research Centre Ltd, Okhala
- Fortis Hospital, Noida
- Fortis Flt. Lt. Rajan Dhall Hospital, Vasant Kunj
- Fortis La Femme, New Delhi
- Fortis Escorts Hospital, Faridabad
- Fortis Escorts Hospital, Jaipur
- Fortis Malar Hospital, Chennai
- Hiranandani Fortis Hospital, Vashi, Mumbai
- Escorts Heart Centre, Raipur
- Fortis Escorts Hospital, Amritsar
- Fortis Jessa Ram Hospital, New Delhi
- Fortis Hospital Seshadripuram, Bengaluru
- Fortis Clinique Darne, Mauritius
- Fortis Modi Hospital, Kota
- S L Raheja Hospital, Mumbai
- Fortis Hospital, Shalimar Bagh, New Delhi
- Fortis Memorial and Research Institute, Gurgaon
- Fortis Kangra, HP
- Fortis Hospital, Bannerghatta Road, Bengaluru



SCHOOL OF HEALTH SCIENCES



Campus Recruitment for Healthcare Graduates

Our Healthcare Programs have always enjoyed special preference among Healthcare recruiters on account their exceptional quality since inception. Graduates are offered placement in sectors like Consultancy, Diagnostics, Hospital, Insurance, IT, Medical Equipment, Pharmaceuticals, NGOs & Public Health, and Clinical Research Labs.



Allied Healthcare

4-Year Bachelors in Medical Laboratory Science (MLS)

A Medical Laboratory Scientist is a healthcare professional who performs Chemical, Hematological, Immunologic, Microscopic and Bacteriological Diagnostic Analysis on body fluids. The scientist also performs equipment validations, calibrations, quality controls or run-by-run assessment, statistical control of observed data and records normal operations.

A career in Medical Laboratory Science combines the challenges of Medicine, Pathology, Basic Sciences and Clinical Laboratory Sciences using state-of-the-art biomedical instruments, critical thinking skills and molecular techniques.

Program Overview

Medical Laboratory Scientists are at the heart of a patient-centric healthcare team, managing labs and running tests that will inform diagnosis and treatment.

Our program in Medical Laboratory Science lays special emphasis on:

Medical Microbiology | Clinical Biochemistry | Human Anatomy | Human Physiology | Microbiology Pathology Fundamentals of Hematology | Scientific Writer Cytogenetic & Tissue Culture | Blood Banking Cytology & Cytotechniques | National Health Program Sales & Marketing Executive | Quality Control Manager

In clinical rotations, the student experiences hands-on learning in each discipline of the laboratory and under supervision, performs diagnostic testing in a functioning laboratory.

Industry Internship

After having successfully completed their academics in the University, the students need to undergo a 6-months internship at reputed hospitals.

Employability

The Medical Laboratory Scientist is qualified by academic and applied science education to provide service, research in clinical laboratory science, related areas of the rapidly changing and dynamic healthcare delivery of systems.

- After successful completion of the program a student will be capable of holding assignments in hospital and healthcare institutions, research laboratories and diagnostic centres.
- Successful candidate can set-up their own establishments.
- Students with an instinct to learn can do higher studies in specialised field of study, and progress as scientists and even enjoy faculty positions in academic institutions.
- Students can get placed as Scientific Officer or Quality Assurance Officer.



Allied Healthcare 4-Year B.Sc in Medical Radiology & Imaging Technology (MRIT)

Medical Imaging is the technique and process used to create images of the human body for clinical purposes, such as diagnosing, examining diseases, or studying normal anatomy and physiology. Medical Imaging Technologists, or Radiographers, perform imaging procedures to diagnose or treat medical conditions.

With rapid advancements in medical technology, the demand for skilled professionals in medical imaging has soared. Our 4-year B.Sc program in MRIT is meticulously designed to meet this growing need.

Program Overview

This program bridges cutting-edge technology with compassionate patient care. Through an industry-focused curriculum, students gain the knowledge and skills essential for a successful career in medical imaging. The mandatory industry internship at Fortis Hospital further enriches students' experience, preparing them to make a tangible impact in healthcare.

Our B.Sc in MRIT emphasises:

Human Anatomy/Surface Anatomy | Radiation Physics
Human Physiology | Radio Diagnosis & Positioning
Radiation Protection | Radiological Technology
Specialised Diagnostic Techniques | Radio-imaging

Industry Internship

Students complete their internship at Fortis Hospital. Successful completion of the internship is required to obtain the Bachelor's degree in Medical Radiology & Imaging Technology (MRIT).

Employability

Graduates will be well-prepared for roles in hospitals, healthcare institutions, research laboratories, and diagnostic centres. Those interested in further studies can pursue specialisation in their field, leading to roles as Scientists or Faculty members in academic institutions.



Allied Healthcare

4-Year B.Sc in Operation Theatre & Anaesthesia Technology

Bachelor of Science (B.Sc) program in Operation Theatre & Anaesthesia Technology has been designed for meeting the demand of the growing need of experts in the fields of Operation Theatre Management, Medical Ethics, Anaesthesia Technology and Post Operation Care.

Operation Theatre and Anaesthesia Technologists are responsible for direct and indirect patient care, equipment set up and operation procedures. They are trained to assist the surgeons during the procedures and assume responsibility for completion of other functions as assigned.

Students have ample opportunities to take part in seminars, case discussions, lab work, experimental work and industry internships.

Industry Internship

Our students complete their internship at Fortis Hospital. The completion of internship is mandatory for the student to obtain the B.Sc Operation Theatre & Anaesthesia Technology Degree.

Program Overview

Our B.Sc program in Operation Theatre & Anaesthesia Technology lays special emphasis on:

Applied Anatomy & Physiology | Clinical Pharmacology
Clinical Microbiology | Anesthetic Techniques
Medical Ethics | CSSD Procedures

Employability

Operation Theatre and Anaesthesia Technologists are required across all hospitals for conduct of surgeries which include:

General Surgery | Ophthalmic Surgery | Orthopaedic Surgery
Gynaecology Surgery | Plastic Surgery | ENT Surgery
Neurosurgery | Cardio Therapy Surgery | Spinal Surgery

OD
ID

Food &
drinks high
in fats & sugar
only small amounts

Meat, fish, eggs,
nuts & pulses
2 to 3 servings per day

Milk, cheese
& yogurt
2 to 3 servings per day

& vegetables
& fruits
4 to 5 servings per day



Allied Healthcare

4-Year B.Sc (Hons.) in Nutrition & Dietetics

This unique program is designed to equip the students with scientific information on nutritional and metabolic care and the relationship between nutrition in health and disease. It will help the graduates with the tools and skills required to promote the nutrition and well-being of individuals and groups in a variety of settings.

It involves the study of basic and advanced level of holistic nutrition, maintaining and improving health by enhancing the quality of life and overall well-being by advocating a healthy diet and exploring healthier dietary modifications.

This program in Nutrition and Dietetics focuses on the role of food, nutrition and health in society. Integrating knowledge and research into course work, our curriculum will provide you with an understanding of basic sciences and theoretical and applied aspects of Nutrition and Dietetics.

Program Overview

B.Sc (Hons.) Program in Nutrition and Dietetics lays special emphasis on:

General Physiology | Principles of Food and Nutrition
Introduction to Food Science | Food Chemistry
Food Microbiology | Basics of Cooking and Meal Planning | Nutritional Biochemistry | Nutraceuticals, Functional Foods and Nutrigenomics

Career Prospects

The study of nutrition and food provides a solid academic education and practical training for a variety of career opportunities. These fields also encompass some of the most critically important and hotly debated issues affecting modern society, such as, world hunger and problems related to safety, bioengineering and the globalisation of food.

Through positions in health care, business, government service, private practice, the food & food service industries and educational and community programs, nutrition and food professionals help individuals and the public make better-informed choices about food and nutritional health.

Registered Dietitians are certified professionals who work in Government Hospitals and prescribe certified diet system for disease management and also guide for proper meal management to prevent the occurrence of metabolic disorders.

- Clinical Dietitians are specialists in food nutrition services in hospitals, outpatient clinics and private practices. They assess patient nutrition, develop dietary plans, provide patient counselling and monitor patient's progress.
- Community Dietitians work in public health agencies, health and fitness clubs and day care centres. They counsel people on food choices and direct programs in nutrition awareness and disease prevention.
- Consultant Dietitians are independent business people who work as nursing home consultants, book authors and patient counsellors in medical centres and fitness programs. They also develop and evaluate food service systems and serve as independent advisors to the industry.



2-Year M.Sc in Clinical Embryology

Chitkara University's M.Sc in Clinical Embryology program offers a comprehensive learning experience over four semesters, covering the theoretical, practical, and clinical aspects of assisted reproductive technology.

The program equips students with an in-depth understanding of both male and female reproductive systems, while honing laboratory skills and fostering effective communication abilities. Emphasising ethical principles, it instils a strong sense of professional responsibility. Students also engage in workshops, seminars, and conferences with industry experts, allowing them to present their work and broaden their knowledge base.

The program includes a crucial 6-month internship at renowned hospitals in the region, providing valuable hands-on experience. By the end, students are well-prepared with the practical skills required to excel as competent embryologists.

Aligned with international standards, UGC regulations, the Assisted Reproductive Regulation Act (2021), and the National Education Policy 2020, the program ensures that students are equipped with the latest knowledge and skills to meet industry demands.

Program Highlights

- **Hands-on Experience:** Practical training in embryology labs focuses on gamete handling, IVF, and embryo culture, with a 6-month internship shaping proficient embryologists.
- **Industry-Academia Collaboration:** Partnerships with top hospitals ensure comprehensive training in assisted reproductive technology, blending theory with real-world application.
- **Expert-Led Learning:** Students gain from expert faculty, hands-on projects, and problem-based learning, merging academic and industry best practices.
- **Interdisciplinary Approach:** Insights from genetics, endocrinology, and embryonic development foster an interdisciplinary perspective.
- **Advanced Research Facilities:** Access to cutting-edge labs supports advanced research in the field.



Learning Outcomes

- Comprehensive understanding and knowledge of including disorders related to infertility.
- Competence in providing services related to semenology, IVF, ICSI, cryopreservation and diagnostic techniques in ART laboratories.
- Development of communication skills to effectively engage with stakeholders in hospital and other healthcare settings.
- Adherence to ethical principles and commitment to professional ethics, responsibilities, and norms in the field of embryology.

Employment Support

Chitkara University is committed to fostering a strong transition from academic life to a successful career for its students. In line with this commitment, the M.Sc in Clinical Embryology program offers robust employment support services to help graduates kickstart their professional journeys. Furthermore, the university has established strong industry connections, enabling students to access a wide range of employment opportunities in prestigious fertility clinics, research facilities, and healthcare organisations. Through seminars, guest lectures, networking events, and partnerships with industry leaders, students have the chance to engage directly with potential employers, gaining valuable insights.

Career Opportunities

The field of clinical embryology presents a wide array of professional opportunities for graduates, with a growing demand for skilled professionals in assisted reproductive technology globally. Graduates can explore rewarding career paths in diverse settings, including fertility clinics, hospitals, research institutions, and academic organisations. With the increasing prevalence of assisted reproductive techniques and the rising demand for fertility treatments, proficient embryologists are in high demand. The specialised knowledge and hands-on experience gained through this program provide graduates with a competitive edge, positioning them for successful and fulfilling careers in the field of clinical embryology.

Upon completion of the program, students can explore various exciting career paths, including:

- Embryologist
- Senior Embryologist
- Chief Embryologist
- Lab Director
- Clinical Scientific Director



4-Year B.Sc in Nursing (Basic)

This program is offered at Chitkara University, Punjab and Himachal Pradesh, Chitkara University.

The B.Sc Nursing (Basic) program at Chitkara University prepares skilled, compassionate professionals to deliver holistic care in diverse healthcare settings. This four-year program focuses on wellness, health promotion, illness management, and end-of-life care. With a blend of hands-on experience and theoretical knowledge, graduates are equipped to excel in nursing and midwifery, meeting both national and international standards.

Program Overview

- **Comprehensive Curriculum:** The program progresses from basic to advanced levels, covering foundational, core, and advanced nursing practice courses such as anatomy & physiology, microbiology, adult health nursing, and child health nursing.
- **Clinical Training:** Clinical exposure is provided through partnerships with private and public hospitals, ensuring hands-on experience in real healthcare settings.
- **Skill Development:** Emphasis is placed on mastering essential nursing skills and practicing clinical scenarios in a safe, controlled environment.

Program Objectives

- Produce knowledgeable, competent nurses and midwives with strong critical thinking skills who are caring, motivated, assertive, and disciplined, capable of responding to the evolving needs of the profession, healthcare systems, and society.
- Prepare graduates to assume responsibilities as professional nurses and midwives, providing promotive, preventive, curative, and rehabilitative healthcare services in diverse healthcare settings.
- Train nurses and midwives to make independent decisions in nursing situations within their scope of practice, protect the rights of individuals and groups, conduct research, and apply evidence-based practices.
- Equip graduates to take on the roles of practitioner, teacher, supervisor, and manager in various healthcare environments.



Chitkara University boasts of state-of-the-art labs for Nursing Programs such as:

Nursing Foundation & Advanced Nursing Labs having hospital-style beds with manikins, CPR dummies, several audio visual aids and equipment for providing the students hands-on training to develop skills in basic and advanced nursing procedures. Use of simulation technique prepares the students for high level clinical decision-making.

Community Health Nursing Laboratory having large tables as working area and equipment needed for providing services in the community areas. In addition, the laboratory has specially designed community bags to carry the necessary equipment for homecare like thermometer, articles for urine testing, sugar monitoring, dressing, physical examination, etc.

Pre-clinical laboratory with all equipment including consumable and non-consumable items for providing the students with the knowledge of basic subjects such as Human Anatomy and Physiology, Biochemistry and Microbiology so that they are able to correlate this knowledge with practical understanding of disease conditions.

Mother & Child Health Lab having all the equipments including delivery table with normal delivery manikins and delivery sets in order to provide the students with competency to develop into skilled and competent midwives.

Computer Laboratory is fully equipped to develop computer literacy among undergraduate students as IT has a positive impact on healthcare delivery system worldwide, particularly in the areas of disease control, diagnosis, patient management and teaching.

Some special features of the Nursing programs at Chitkara University are:

- Rich clinical experience in all specialisations.
- Additional modules are made available to the students.
- Communication Skills and Personality Development.
- Principles & Practices of Management and Medico-legal issues offered to students during the program.
- Workshops on Basic Life Support (BLS) and Advanced Cardiac, etc. Life Support, Advanced Trauma Care and Disaster Management Programs.
- Placement assistance in reputed institutions in India and abroad.

2-Year Post Basic B.Sc in Nursing

in collaboration with Fortis Healthcare

Post Basic B.Sc Nursing offered by Chitkara University is recognised by the Indian Nursing Council (INC) and the Punjab Nursing Registration Council (PNRC).

Program Overview

Our 2-Year Post Basic B.Sc in Nursing program at Chitkara School of Health Sciences is a Bridge Course offered to general Nursing Diploma holders to equate them with the graduate nurses. The graduates will be prepared to assume responsibility in the primary, secondary and tertiary care of people as professional nurses. The program will help students develop an understanding of the philosophy, objectives and responsibilities of Nursing as a profession. The purpose of the course is to orient the students to the current concepts involved in the practice of nursing and developments in the nursing profession integrating the knowledge of various fields, and provide holistic care to patients and their families through the promotion of healthcare, prevention of disease spread & infection, care during illness and rehabilitation during recovery.

Program Objectives

The aim of the program at the Post Basic level is to upgrade the Diploma (GNM) Nurses to:

- Assume responsibilities as professional, competent nurses and midwives at basic level in providing promotive, preventive, curative and rehabilitative services.
- Make independent decisions in nursing situations, facilitate & protect the rights of individuals and groups in pursuit of health and to function in the hospital.
- Work in community nursing services, and conduct research studies in the areas of nursing practice. They are expected to assume the role of teacher, supervisor or manager in a clinical or public health setting.

Career Prospects

B.Sc Nursing (Basic) program & B.Sc Nursing (Post Basic) offers a range of promising career prospects due to the increasing demand for healthcare professionals:

- **Registered Nurse (RN):** provides direct patient care in various settings such as hospitals, clinics and community health organisations.
- **Nurse educator:** teach nursing students in academic institutions helping to train the next generation of nurses.
- **Nurse administrator:** pursue positions in healthcare management, overseeing nursing staff and ensuring quality patient care.
- **Public health nurse:** work to improve health outcomes in populations through education, prevention and health promotion.
- **Home healthcare nurse:** provide care to patients in their homes, especially for elderly and chronically ill patients.
- **Nursing in the Armed forces:** can join Indian army, Navy or Air Force as nursing officers.



2-Year M.Sc in Nursing

Medical Surgical Nursing | Community Health Nursing Paediatric Nursing
Psychiatric Nursing | Obstetrics & Gynaecological Nursing

The M.Sc Nursing program develops nurses to make independent decisions, safeguard health rights, lead in practice, education, and research.

M.Sc Nursing program equips nurses with the ability to make autonomous decisions in patient care, safeguard the rights of individuals and communities in their pursuit of health, operate effectively in hospital and community nursing services, and engage in research within the nursing practice domain. Graduates are also expected to take on roles as educators, supervisors, and managers in clinical and public health settings.

The pedagogy for the M.Sc Nursing program centres on a holistic learning approach, encompassing theoretical foundations and extensive clinical exposure. Emphasis is placed on research and evidence-based practice, fostering ethical and cultural competence, and nurturing leadership and management skills.

It equips students with teaching capabilities and advanced clinical specialisation, integrating technology and simulation-based learning. Continuous assessment and inter-professional education promote growth, while clinical placements, community engagement, and professional development opportunities enrich the learning experience. This comprehensive approach ensures that graduates are well-prepared, not only clinically but also ethically, culturally, and as leaders, ready to excel in diverse healthcare settings and contribute to the nursing profession.

Some of the career options after this program are:

Cardiac Nurse | Community Health Nurse
Nursing Advisor | Child Health Nurse | Critical Care Nurse
Nurse Administrator | Nurse Educator Nursing Faculty



Optometry Programs

A dynamic healthcare profession, Optometry revolves around the meticulous examination, diagnosis, treatment, and management of various diseases and disorders related to the visual system. A crucial branch of healthcare, Optometry is dedicated to addressing all matters concerning the eyes. The responsibilities encompass conducting thorough eye examinations to identify vision issues and prescribing corrective lenses to rectify these issues. Optometrists play a pivotal role in bestowing the invaluable gift of clear, unhindered vision.

In a country like India, where more than 300 million individuals lack access to adequate vision correction, the demand for over 100,000 well-trained optometrists becomes increasingly apparent.

The field of optometry presents a multitude of career prospects and options, ranging from private practice to academic research and public health initiatives. Optometrists can also specialise in areas such as paediatric optometry, geriatric optometry, or low vision rehabilitation, catering to diverse patient needs and interests. Such dynamic career paths highlight the versatility and long-term potential within the field of optometry.

The escalating demand for proficient optometrists in the public sphere underscores the necessity for top-tier undergraduate programs. These programs are essential in equipping aspiring students with the necessary education and training required to thrive in this specialised field.

4-Year Bachelor of Optometry (B. OPTOM)

4-Year full-time Bachelor of Optometry program at Chitkara University focuses on providing integrated approach which help develop a high degree of conceptual skills, analytical skills and quality technical knowledge base among future Optometrists and prepares them for a bright future in the Healthcare industry.

This undergraduate degree will train the students with the requisite skills and knowledge that is needed to work as an optometrist. The students who pursue this course will be trained to understand the science behind diseases of the eye, its diagnosis, treatment, rehabilitation and referral as appropriate. Gaining in-depth knowledge will help the students to become professionals who can reduce vision-related issues. Devising ways to offer a functional and effective healthcare delivery system, the field of Optometry is one of the most important and fastest-growing fields.

Students will be groomed and trained by optometry experts, specialised in binocular vision and vision therapy, low vision and rehabilitation and contact lenses to meet the demands of a rigorous curriculum. They will be trained to offer comprehensive care for visual systems like vision, detection of all kinds of eye diseases, carefully prescribing eye correction options like suitable eyeglasses, contact lenses and low vision aids.

This is a dynamic and challenging career, which allows one to help people achieve personal growth, community respect, job flexibility and financial success. The training will enable a student to become a competent person in providing service to the community in urban, semi-urban and rural settings in private and government healthcare organisations.

Program Structure

Chitkara University has planned a dynamic 4-year program which will encompass 3-years of intensive teaching and practical training at various eye hospitals in the tricity, followed by 1-year of clinical internship and hands on learning at eye Hospitals across the country. The Chitkara School of Health Sciences is an active member of Association of School and Colleges of Optometry (ASCO, India).

Some basic courses covered during the program are:

- Basic Biochemistry & Nutrition | General & Ocular Physiology & Anatomy | Physical & Geometric Optics
- Principles of Lighting | Optometric & Visual Optics
Optometric Instruments | CEVS & Ocular Diseases
- Microbiology, Pathology & Pharmacology Clinics
Medical Psychology | Systemic diseases & Glaucoma
Low Vision Aids & Geriatric Optometry Contact Lens
Dispensing Optometry & Occupational Optometry
- Pediatric Optometry, Binocular Vision & Advances
in Optometry Project | Clinics & Specialities
- Law & Optometry | Public Health Epidemiology
& Biostatistics

Program Highlights

- Well-structured course aligned with Ministry of Health & Family Welfare (MOHW) and international standards
- Professional Development Engagement through Journal Clubs, Seminars, Webinars and MOOC courses
- Extension activities, Eye Camps, Radio talks
- Clinical training through supervised observerships and field visits
- Pre-clinical Internship with ASCO India
- One-year clinical Internship at Prominent eye care hospitals in the region
- Multi-disciplinary research



Career Options in Optometry

According to several reports every third blind person in the world lives in India, 75% of whom can be ascribed to preventive blindness (cataract, refractive error), underscoring the need for timely detection and treatment.

Whereas, India needs more than 40,000 Optometrists, the figure stands at below 10,000. Moreover, with most people over 40 (and even earlier) requiring glasses/lenses, a skilled & experienced Optometrist is always in demand.

With an increasing aged population and the growing incidence of Macular Degeneration and Diabetic Retinopathy, Optometrists are an integral part of the primary eye care.

Optometrists usually work in eye hospitals, clinics and opticians' outlets or with multinational vision care companies. After gaining experience in a private establishment or with a lens manufacturer, you can open your own practice. Flexibility in practice and myriad choices in geographic location are some of the many benefits of this profession.

Upon completion of the Master's in Optometry program, graduates are eligible for the following positions:

Vision Therapist | Behavioural Optometry Specialist | Neuro-optometric Rehabilitation Professional
Low Vision and Contact Lens Specialist | Academician | Researcher | Entrepreneur

Collaboration with Eye Hospitals

We have strong collaboration with the best eye hospitals to provide opportunity for hands on clinical learning to our optometry students:

Sankara Eye Hospital | Dr. Agarwals | EYE Q | Grewal Eye Institute | PC Sharma Eye Hospital
Kapil Eye Hospital | Om Parkash Eye Hospital | Dr. Shroff's Charity Eye Hospital



Campus Recruitment

Some of the major campus recruiters for our optometry students through the years have been:

 ADVANCED EYE CENTRE		 Bausch & Lomb.	 CENTRE FOR SIGHT Kolkata, India	 Dr. Agarwal's EYE HOSPITAL
 essilor	 EYE Q	 GREWAL EYE INSTITUTE	 Guru ka Langar EYE HOSPITAL, Ambala City, India	 ICARE EYE HOSPITAL AND POSTGRADUATE INSTITUTE
LENSCRAFTERS	 lenskart.com	 SANKARA ACADEMY OF VISION	 SANKARA EYE HOSPITAL	 SEC
 SGHS Sri Ganga Hospital Sri Ganga, India	 SILVERLINE HOSPITAL	 THIRD EYE HOSPITAL	 TITAN eyeplus	 ZEISS



Physiotherapy Programs

Physiotherapy can be considered as a health profession which is concerned with maximisation of mobility and quality of life and plays a key role in improving the patient's health, well-being and quality of life.

The prevalence of common musculoskeletal problems such as backaches, stiff shoulders, neck issues, and knee osteoarthritis is increasing due to mechanisation and sedentary lifestyles. Physiotherapists play an essential role in addressing these concerns within multidisciplinary medical teams, focusing on restoring optimal physical function and overall well-being.

The significance of physiotherapy programs has thus grown substantially, emphasising their crucial contribution to managing the impact of sedentary living on musculoskeletal health. This growing need underscores the importance of comprehensive and well-structured physiotherapy education to equip professionals with the skills necessary to meet the challenges of the modern healthcare landscape.

A qualified Physiotherapist can:

- Establish a physical diagnosis and determine a client's movement potential.
- Plan and implement physiotherapy treatment programs, using specialised knowledge and skills in exercise prescription and hands-on techniques for the prevention and treatment of movement dysfunction.
- Undertake related professional activities such as research, teaching, administration and consultation.



4.5-Year Bachelor of Physiotherapy (BPT)

Physiotherapy involves assisting and encouraging patients to help themselves to reach greater levels of independence.

The emphasis in the first two years of study is on theory and practical, and is designed to give students a firm foundation in the subject area. This includes visualisation of dissection of the human body in order to obtain a thorough knowledge of the structure of the body, biomechanical basis for movement and exercises and biophysical basis for the use of modalities. In the third and fourth year of study, along with the theoretical foundation, clinical visits to the hospitals is conducted, including ward rounds and clinical demonstrations and discussions.

Program Structure

Our Bachelor of Physiotherapy program is designed to meet the international standards of the University and is taught by a highly qualified faculty. The program has a balanced exposure of both academic and clinical training and is a full-time course it is minimum 4 years and minimum six months of compulsory internship.

Program Objectives

On completion of the program, you'll be able to:

- Detect and evaluate anatomical patho-physiological and psychosomatic impairments resulting in physical dysfunction across age groups.
- Understand the basic investigative approach to the medical system and surgical intervention regimens; and plan and implement Physiotherapy measures accordingly.
- Select strategies for cure and care; adopt restorative and rehabilitative measures for maximum possible independence of a client at home, workplace and in the community.
- Ensure quality assurance and motivate the client and his family for desirable result.

Career Options in Physiotherapy

Physiotherapists have diverse employment opportunities across various industries and firms. They can also establish their clinics and practice independently.

With the changing health conditions and lifestyle of the people, the requirement for physiotherapists has increased and will continue to in the near future as well.

The following sectors and industries offer ample employment opportunities for Physiotherapists:

Hospitals: Hospitals mainly hire physiotherapists to help treat the patients for different departments. The patients can be affected with orthopaedic problems, obstetric problems, rehabilitation process for cardiology patients, medical and surgical problems, etc. These professionals work in close contact with the different specialists and experts of the medical field.

Corporate Houses: Physiotherapists hired by the corporate houses work for the health and fitness of their employees. The physiotherapists organise workshops and exercise sessions for the employees and promote them to stay fit and fine, both mentally and physically.

Healthcare Centres: Physiotherapists of a healthcare centre work on the patients' wellness and fitness and focus on areas of improvement. They also guide patients with their dietary plans and supplements that will help in boosting their metabolism.

Private Clinics: A private clinic physiotherapist's work resembles that in a hospital, differing in patient volume and treatment specialties. Clinics usually focus on two or three specialties, while hospitals are known as multi-specialty institutions.

Universities: The physiotherapists are hired by the universities to teach students the healthy way of living. They are hired either as professors or trainers to guide students through the subject-matter. They teach technical and theoretical parts to the students so that the batch of new and well-trained physiotherapists are ready for the nation.

Rehabilitation Centres: As the name suggests, these centres work mainly on improving the lives of patients admitted there. A physiotherapist here will help and support the experts working on the patients. Different exercises, for both mind and body, are taught by the physiotherapists in a rehabilitation centre.

Orthopaedic Clinics: An orthopaedic clinic focuses on problems related to deformities of muscles or bones. The role of a physiotherapist here is to train the patients to come out of their deformities with regular exercises. The physiotherapists work under the orthopaedic doctors and provide sessions to their patients at the clinic or at home.

Sports and Fitness Centres: A physiotherapist at a sports and fitness centre works with the experts for the fitness of the clients. Maintaining the records of the clients and to evaluates which fitness program should be scheduled for a particular day.

Defence Establishments: At a defence academy or establishment, the role of the physiotherapist rotates from planning the exercise sessions to treating the injuries of the defence personnel.

Campus Recruitment

Some of the major campus recruiters for our Physiotherapy students through the years have been:





PHARMACY
ALLIED HEALTHCARE
NUTRITION
NURSING
OPTOMETRY
PHYSIOTHERAPY

CHITKARA
UNIVERSITY



PUNJAB
HIMACHAL PRADESH

UNIVERSITY CAMPUS

Chandigarh-Patiala National Highway
Punjab-140 401 | India

Pinjore-Barotiwala National Highway (NH-21A)
Himachal Pradesh – 174 103

INFORMATION CENTRE

Unit No. A 201-202, Elante Mall Office Complex
Industrial Area Phase I, Chandigarh, 160002

www.chitkara.edu.in
www.chitkarauniversity.edu.in
admissions@chitkara.edu.in

Admissions Helpline:

+91 95011 05714 | 95011 05715
For more information about our programs
give a miss call on 1800 267 1999

WhatsApp: 98590 00000

PHARMACY



HEALTHCARE

