



**CHITKARA**  
UNIVERSITY

# Hello future.



PUNJAB  
Information Brochure  
Academic Year 2015

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Explore **Your** Potential

# EXPLORE YOUR POTENTIAL

Whether you want to broaden your mind, advance your career, increase your knowledge, travel the globe or change the world, Chitkara University can provide you with the **opportunity** and real life skills to do it.

# STRONG ACADEMIC HERITAGE

Chitkara University which has been founded by highly accomplished and **passionate** academicians is emerging as one of the leading non-profit private Universities in the country.

# 100% CAMPUS RECRUITMENT

Chitkara University has established an unassailable reputation for strong on-campus recruitments on the sheer virtue of our intensive focus on making all our graduates "**industry ready**".

# INNOVATION

Chitkara University is different. Our students are different. So are our faculty, our academic strengths, research pedigree and our outlook on **teaching and learning**.

# THINK

Students from around the country are attracted to Chitkara University because all our academic programs are designed with keeping **YOU** in mind.

**So go ahead. Sign on the dotted line for your future success.**

AN INSPIRATIONAL  
STUDENT EXPERIENCE  
AT A LEADING  
NON-PROFIT PRIVATE  
UNIVERSITY OF  
INDIA

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# WHO ARE WE?

Chitkara University has been founded by **Dr. Ashok Chitkara** and **Dr. Madhu Chitkara** who have been passionate teachers for more than 40 years now.

Since the inception of the University, Chitkara University has been **different**. Our students have been different. So are our faculty, our academic strengths and our outlook on **teaching** and **learning**.

The unique difference being that Chitkara University has been established by and managed by **passionate** academicians with the sole mission of making each and every student **"Industry ready"**

This difference has been acknowledged by students, parents, alumni, Government and Industry since the inception of the University. Within a decade, most of our academic programs are ranked among the **top 50** programs in the country which speaks volumes about our **strong** academic heritage, highly committed **faculty**, extensive Industry collaborations, great international connections and state of the art campus facilities.

JOIN CHITKARA UNIVERSITY TO  
EXPLORE **YOUR** POTENTIAL !!





**Dr. ASHOK K CHITKARA**  
CHANCELLOR  
CHITKARA UNIVERSITY

Selecting a university program marks the start of an exciting period of your life. When you are selecting a program at an institution, you add life-changing experiences and expanded opportunities as well.

Students from around the country are attracted to Chitkara University because of our commitment to teaching excellence, because we conduct research that makes a difference, because of our industry partnerships and because of our tailored courses.

We look forward to welcoming you to Chitkara University.

**STRONG  
ACADEMIC  
HERITAGE**

**Dr. MADHU CHITKARA**  
PRO CHANCELLOR  
CHITKARA UNIVERSITY

Chitkara Education brings with it a reputation that has been earned through years of serving the career-needs of the student community. It is a reputation for excellence and innovation among coveted employers for preparing graduates who have the knowledge and skills they need for success in their workplace.

There are many reasons to choose Chitkara University. Our graduates go on to great careers, we're hands-on and responsive in our teaching, we provide a great environment to study and our research is world-class.



“The learning environment at **CHITKARA UNIVERSITY** represents a unique blend of distinguished faculty, brilliant and intellectual students with a proactive collaboration with industry.”



## CHITKARA UNIVERSITY IN PUNJAB

Chitkara Educational Trust established its Punjab campus in the year 2002 on the Chandigarh-Patiala national highway which is 30kms from Chandigarh. In the year 2010, Chitkara University was established by the Punjab State Legislature under 'The Chitkara University Act'. Chitkara University is a government recognized University with the right to confer degrees as per the sections 2(f) and 22(1) of the UGC Act, 1956. Chitkara University Punjab is a multi-discipline student centric campus with more than 6000 students and 1000 faculty members.



## CONSTITUENT INSTITUTIONS OF CHITKARA UNIVERSITY (PUNJAB) ARE:

### CHITKARA INSTITUTE OF ENGINEERING AND TECHNOLOGY

- 4-Year Bachelor of Engineering (B.E.) in
  - Computer Science & Engineering
  - Electronics & Communication Engineering
  - Mechanical Engineering
- 2-Year M.E. Program in
  - Computer Science & Engineering
- 2-Year MCA (Lateral Entry)
- 3-Year BCA
- 5-Year Integrated BCA-MCA

### CHITKARA SCHOOL OF PLANNING & ARCHITECTURE

- 5-Year B. Arch.

### CHITKARA BUSINESS SCHOOL

- 2-Year Management Program (MBA) in
  - Marketing
  - Banking & Finance
  - Financial Market Practices in collaboration with **BSE Institute**
  - Healthcare Management in collaboration with **Fortis Healthcare**
  - Human Resource in collaboration with **ManpowerGroup**
  - Logistics & Supply Chain Management in collaboration with **Safeducate**
- 3-Year B. Com (Hons.)
- 3-Year BBA

### CHITKARA COLLEGE OF HOTEL MANAGEMENT & CATERING

- 3-Year B. Sc. (HMCT)

### CHITKARA COLLEGE OF PHARMACY

- 6-Year Pharm. D.
- 4-Year B. Pharm.
- 2-Year M. Pharm. (Pharmaceutics/ Pharmacology/ Clinical Research & Clinical Pharmacology)

### CHITKARA SCHOOL OF MASS COMMUNICATION

- 3-Year BA in Journalism & Mass Communication
- 2-Year MA in Journalism & Mass Communication

### CHITKARA COLLEGE OF SALES & RETAIL MARKETING

- 2-Year MBA (Sales & Retail Marketing)

### CHITKARA SCHOOL OF HEALTH SCIENCES

- 4-Year B. Sc. Nursing
- 3-Year B. Sc. (Allied Healthcare)
- 4-Year B. Optometry
- 2-Year M. Optometry

### CHITKARA COLLEGE OF EDUCATION

- B. Ed.





**Chitkara University's reputation for innovative teaching, strong industry links and highly employable graduates continues to set us apart from other Indian Universities.**

### **SMALL WORLD**

Whether you are a Bachelor's student, Master's student or taking part in one of our exchange programs, we make sure you feel right at home with us.

Chitkara University provides a specially safe and serene setting for studies. Students get to enjoy the changing seasons and are able to grow in various ways.

At Chitkara University, Education is not only 'State-of-the-art' but truly 'State-of-the-heart'. Everything we do shares the same mindset and determination.

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**We feel passionately about what we do and we hope you will become part of our family.**

### **CLEARED FOR LAUNCH**

Any decent road map to success requires that you know where you are going and also where you have been. The third element is momentum.

In accordance with Chitkara strategy, we allocate more and more resources to excellence in teaching and learning. The entire approach at Chitkara University is learning-centric, enhancing knowledge, skills and understanding through practical experience.

Today, we have impressive world-wide collaboration agreements with top International Universities and research institutions which is helping us train Chitkara students for the new global economy.

We strongly believe that we are creating the right kind of future for the professionals of tomorrow who we are educating today. Our Education is always supported by the exceptional research that we conduct. This is a solid platform for your potential, for your ambition and for your career.



## INDUSTRY-LED COURSES

Chitkara University offers a learning experience that improves your employment prospects. We maintain close links with leading blue-chip companies and professional associations to deliver most of our academic programs. Through these alliances we stay in touch with industry, ensuring that our courses are relevant, practical and deliver the skills in demand allowing our graduates to hit the ground running.

Strong corporate relationships also have a direct influence on our degree programs and have resulted in our 'industry facing' curricula. This ensures that our education is up to date and valued by the future employers of our alumni. Chitkara University's board also has a strong representation of top level executives from top corporations across the world.

## GREAT CAMPUS RECRUITMENT

Chitkara University has established an unassailable reputation for very strong campus recruitment on the sheer virtue of our intensive focus on making all our graduates 'industry ready'.

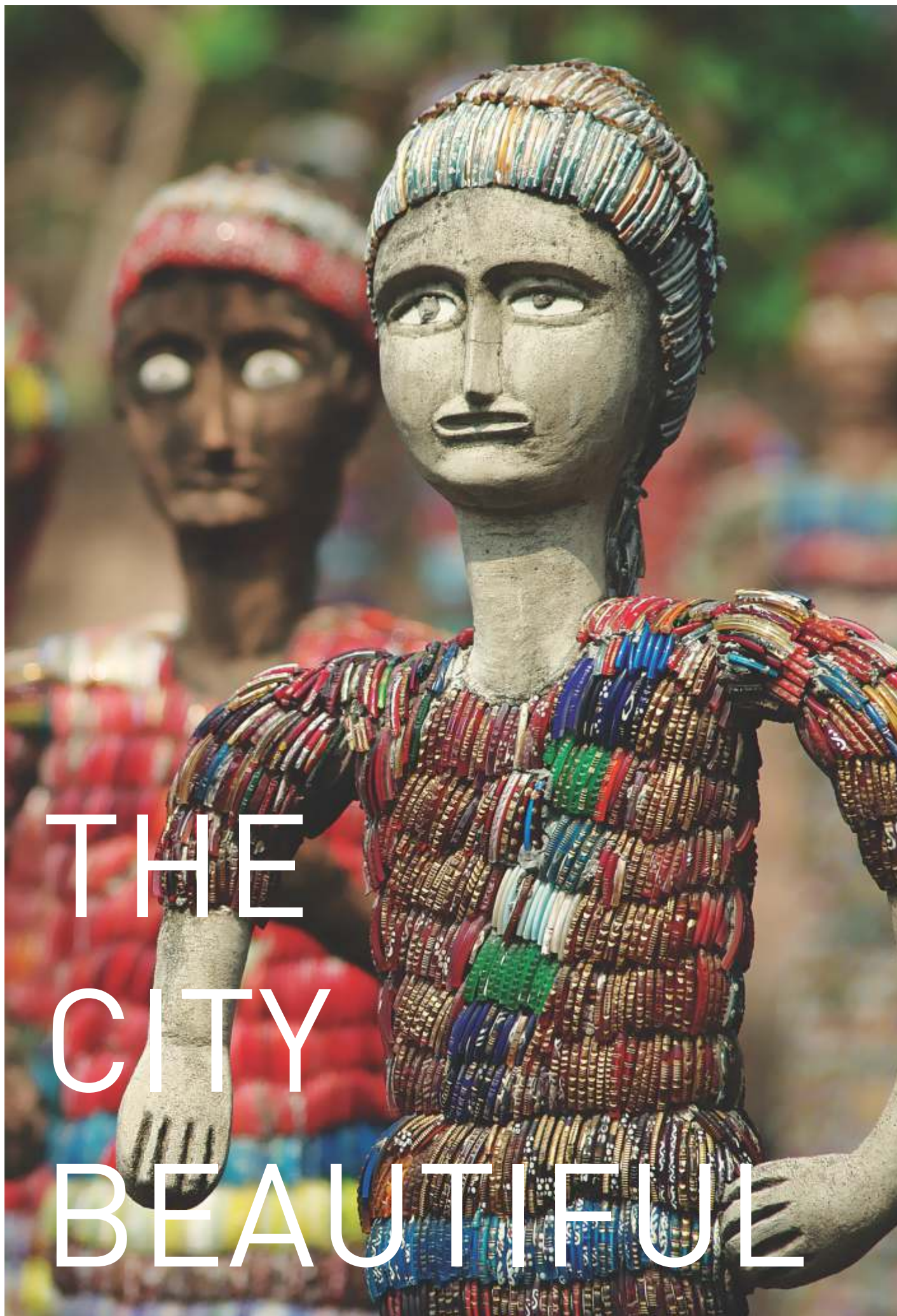
## START ME UP

Innovation and entrepreneurial thinking are highly valued at Chitkara University. The possibility to combine business and technology in their studies gives our students unique opportunities to build their future careers, be it through top-class companies or capitalizing on their own innovations in order to create new businesses.

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Think of it as your very own, personal Launch pad.





THE  
CITY  
BEAUTIFUL

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# CHANDIGARH

## A million people; infinite possibilities

Located in the foothills of the Shivalik mountain ranges, Chandigarh is India's best planned city, with world renowned architecture and an unparalleled quality of life. The face of modern India, Chandigarh, is the manifestation of a dream that Pt. Jawahar Lal Nehru envisaged and Le Corbusier executed.

Chandigarh was the first planned city in India post independence in 1947 and is known internationally for its architecture and urban design. The city has projects designed by architects such as Le Corbusier, Pierre Jeanneret, Jane Drew and Maxwell Fry. It is an urban showpiece - where plants and trees are as much a part of construction plans as the roads and buildings.

Chandigarh and its surrounding areas, namely Mohali and Panchkula are on their way to become the north Indian hubs for IT industry with major presence of companies such as Infosys Technologies, Dell, Tech Mahindra, Quark and Wipro. Chandigarh is also home to several regional offices for major multinational banks, retail establishments and real estate corporations.

With its world class infrastructure and highest per capita income Chandigarh is fast emerging as the entrepreneurship hub of the country.

Chandigarh is also attracting the service industry, education, health, food processing and a host of other companies who view it as their regional center for all north Indian states namely Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab and Haryana.

- Chandigarh is a city that comes under eTimes' 15 best Asian spots. eTimes' magazine has dubbed Chandigarh as 'the thinking man's city' amidst a continent of mindless growth
- In major surveys, Chandigarh beats Bangalore, Chennai & Hyderabad in the overall ranking of India's best cities for doing business.
- A confederation of Indian Industries (CII) commissioned study has ranked Chandigarh as the overall third best city for doing business among 35 cities with an urban population exceeding population of one million.

With easy connectivity to major cities across India by flight as well as rail Chandigarh serves as the gateway to northern India. There are also direct flights to connect with the rest of the country mainly Mumbai, Delhi and Bangalore. Indian rail network connects this city to various Indian cities chiefly Delhi, Shimla, Lucknow, Jaipur, Mumbai, Goa and Kerala.





WE ARE  
**HANDS-ON &  
RESPONSIVE**  
IN THE WAY WE TEACH



## HANDS-ON TEACHING

Our degree programs prepare students for the real world and offer the opportunity for practical, hands-on experience, internships and projects. Take advantage of this experience to gain the practical skills employers are looking for and open your mind to career opportunities. Academics at Chitkara University keep pace with workplace demands and ensures that students are 'work ready' and in touch with what is expected in a professional environment.

### **Academic Excellence**

Our academic programs enjoy a great reputation in the industry. To maintain our leadership position, we focus on inducting the best faculty from across the industry and academia. Our faculty is known for its strong academic orientation contributing to the creation of knowledge in a dynamic, ever changing environment. Classes are built around experiential learning where students are pushed to their limits to take conceptual framework and apply them. Teaching methods include lectures and tutorials that emphasize a learning-centric approach and application of knowledge. Faculty brings their broad based experience into the classroom to enrich the learning process and to ensure that coursework reflects current industry practices.

### **Problem Based Learning (PBL)**

Some of our courses are being taught using the PBL approach where students apply their knowledge to solve problems they may encounter in a professional context and in doing so, extend their experience beyond their text books. Elements of the work situation are brought into the classroom by the PBL approach. Students undertake a series of tasks that bring industry problems into the academic environment.





### **Guest Lectures**

Guest lectures are regularly organised by eminent industry experts, entrepreneurs and HR managers from large and medium sized companies to give information to students on latest trends and happenings.

### **Applied & Project Based Learning**

Applied learning is a hallmark of all teaching at Chitkara University. We believe that the best way to learn is by doing and that's why we emphasize a hands-on approach. We lay stress on project based learning. Thus, the need for independent thinking and creativity is encouraged among students resulting in interesting and novel projects. Further, a significant increase in the open category credits enables students to have a broad base and pursue interests and adopt a multi-disciplinary approach.

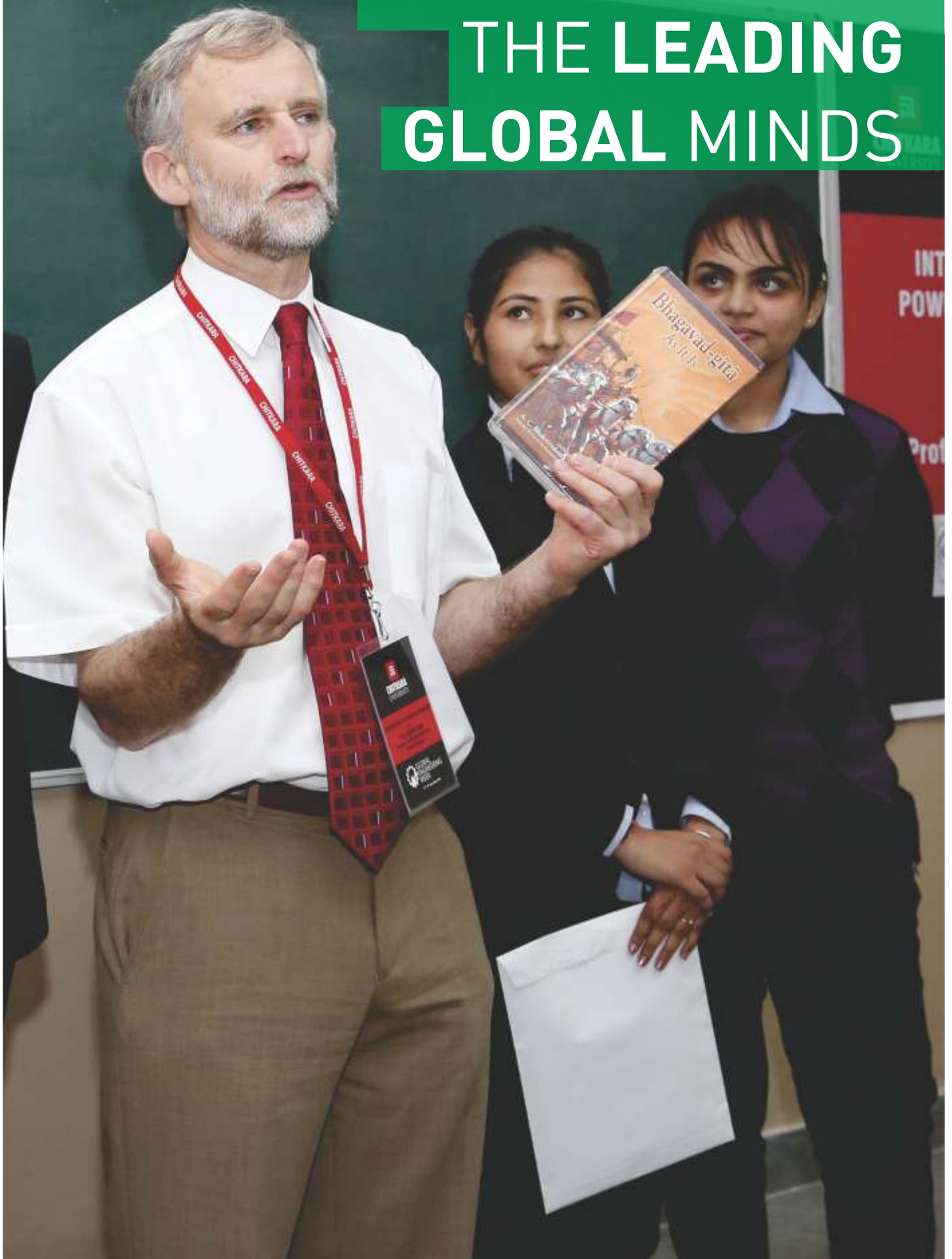
### **Specialisation Options**

In every program, further specialisation and electives are offered in the last year of the study. To help a student in this task, various tracks have been identified through our curriculum geared towards a variety of specialisations. Our goal is to prepare students for a satisfying career in Engineering. Following a particular curricular track will equip a student with the skills needed for progressing further in the chosen career.

### **Faculty**

Chitkara University boasts of strong faculty with Masters and Doctorate degrees in different specialisations with appropriate academic and research blend of mind. The entire faculty has been drawn from leading academic institutions and corporations from across the country with years of teaching and research experience. Our faculty enjoys a good reputation and strong relations with leading industrial houses in terms of consultancy and research work. Our faculty not only focuses on conceptual understanding of various academic concepts but also gives first hand experience to all students through role plays, experiential exercises, industrial visits and classroom lectures.

# INTERACT WITH THE LEADING GLOBAL MINDS







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## EDUCATION THAT WORKS

**Lectures, demos, assignments, seminars, tutorials, laboratory assignments, internships and corporate visits are an integral part of Chitkara Education. Our study methods are continuously developed and new creative ones introduced. Small student groups allow teachers and professors to get to know every student on an individual level.**

Your academic studies will be challenging. We offer the highest quality academic experience and expect you to excel. You will be an active part of a leading academic community where originality, independent thought and enquiry are not only encouraged but expected. You will be studying and working alongside academics who are experts in their fields. Our outstanding and responsive support services will be actively available to you right from the start of your transition to University life, until the end of your degree.

You will be encouraged to become an independent and self motivated learner. This means you will be able to spend your time outside of lectures reading around your chosen subject, formulating your own ideas. This will encourage you to develop an enquiry-based approach to learning, enabling you to challenge ideas and put forward your own opinion.

This approach may be very different to the way you have studied in the past. With the support of your lecturers and tutors, you will learn to adapt to this participative approach and reap the rewards it brings you. Our enquiry based approach enables you to take control of your own learning, encouraging you to develop the skills that employers are looking for.



# INSPIRING AND HIGH QUALITY EDUCATION

## TEACHING METHODS

We have a range of teaching methods, designed so that you can get the most from your studies such as:

### **Lectures**

You will listen to experts sharing their knowledge and discoveries in challenging and encouraging ways. Academics will introduce you to key facts and ideas in your subject. There may be mini activities and pair work to complete later. You may like to take written notes, but most lectures are now recorded, so you can access the information afterwards on the Virtual Learning Environment.

### **Seminars**

In small groups led by academics you will be encouraged to present and discuss your ideas and debate interpretations and opinions with other students.

### **Tutorials**

You will have the opportunity to discuss your work and assignments with your tutor, usually in small groups.

### **Laboratory-Based work**

You will have a chance to get practical experience and apply the knowledge you have developed in your lectures to a laboratory setting. Through these sessions you will learn to expertly analyze real life problems that will equip you with the practical and analytical skills so valued by employers.

### **Workshops**

You will engage in problem solving sessions facilitated by a member of academic staff; these sessions usually involve students working in groups.

### **Self Study**

You will be expected to read around the subject matter of your lectures. Lectures will stimulate your curiosity to find out more through your own independent study and teamwork with fellow students, both before and after the lecture itself.

### **Peer Group Learning**

You will be asked by your tutor to direct a lesson or prepare a presentation with your fellow classmates. By interacting with the lesson material, you will remember the content more effectively.

## CUTTING EDGE EQUIPMENT AND UP-TO-DATE LABORATORIES

Ample, up-to-date computer resources and the newest technology are available to students. Laboratories are equipped with tools used by the industry and businesses making our education future-proof.



WHERE  
LEADERS  
ARE MADE





## COMMUNICATION SKILLS

**ATTITUDE, COMMUNICATION & KNOWLEDGE ARE THREE ESSENTIALS FOR STUDENTS TO SUCCEED IN THEIR LIVES. WE EMPHASIZE MORE ON THESE THREE ASPECTS THOROUGHLY TO MAKE OUR STUDENTS COMPETENT AND CAPABLE PROFESSIONALS.**

We provide a specially designed training program to the students in order to improve their employability skills and to prepare them to face the interview boards more effectively. The objective of this program is to provide the students with an integrated module of personality enhancement emphasizing those areas which are essential for the overall growth and development of a confident and well groomed professional.

In a recent survey of recruiters from companies with more than 50,000 employees, communication skills were cited as the single most important decisive factor in choosing employees. The survey points out that communication skills, including written and oral presentations and an ability to work with others are the main factors contributing to job success.

At Chitkara University, our qualified in-house trainers for communication skills provide language training where students learn to speak and communicate effectively. Sufficient opportunities are provided to our students to master their language skills through group discussions and presentations.

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# RESEARCH OPPORTUNITIES

**Research at Chitkara University is growing steadily but strongly. Led by successful strategies to develop a vibrant research culture which aligns with and informs our learning and teaching activities. Our goal is to improve Chitkara's research performance by building a critical mass of researchers who will develop a distinctive portfolio of high quality discovery, applied and commercial research.**

The University's approach to its research is differentiated, targeted and welcoming of quality collaborative partners. Our strategies include: concentrating research in areas of strength and excellence; engaging widely with local, national and international institutions, industry and community partners, and all levels of government; establishing and partnering in research centres; appointing researchers who are leaders in their fields; and commercialising applied outcomes.

Both the faculty and doctoral scholars actively involve themselves in research projects. Interdisciplinary research, a system level approach and close ties to industry combine to yield up-to-date research. Strong ties with industry complement these top-notch research opportunities. Through research centre-industry liaison programs and departmental advisory boards, faculty and students are working towards future technologies. Lot of our research initiatives are under the funding consideration from DST and other related agencies.

The students and faculty take part in national/international conferences as well as workshops and seminars in their areas of interest. Faculty are constantly involved in research publications and quality improvements programs. This approach helps the faculty in taking the student imagination beyond classroom teaching to actual scientific exploration.

Chitkara University is one of the two institutions in India that received the prestigious HP Innovation Grant of USD 1,70,000 and one among five selected from Asia Pacific including Japan for creating technology which is accessible to everyone as a way to learn, work and benefit from information.



A male scientist with dark hair and glasses, wearing a white lab coat and a white surgical mask, is working in a laboratory. He is wearing white gloves and is in the process of pouring a bright blue liquid from a graduated cylinder into a small beaker. The background is slightly blurred, showing laboratory equipment and a green plant. The text 'VIBRANT RESEARCH CULTURE' is overlaid in the top right corner in white capital letters on a blue background.

# VIBRANT RESEARCH CULTURE



## Library Facilities

Library services at Chitkara University are the cornerstone of our education system. The mission of our library services is to facilitate creation of new knowledge through acquisition, organisation and dissemination of knowledge resources.

The libraries at Chitkara University Punjab have spacious reading hall, periodical centre, group discussion rooms and online database browsing area.

The University libraries offer a wide range of materials in a variety of formatsófrom traditional books and serials to films, multimedia and networked information from around the world. Highly skilled staff assists students to use the local collections and find information on specific topics.

Our libraries are a learning space where students are inspired to explore, research, and create. Our libraries are not only the place to think, but also an informal work area where students gather to collaborate. Social elements include a café and vending machines, lounge areas, and newspapers. Use our libraries to study for exams, finish assignments, and to balance study and work.

Our libraries house a collection of more than 20,000 items including books, journals, microfilms, audio-visual material and CD-ROMs. Furthermore, the students have access to more than 10,000 electronic journals available online.

We have access to a large number of e-resources, ASCE Journals, ASME Journals, IEL online, Science Direct, EBSCO, EMERALD, SCIFINDER, SAE-Tech Papers, Indian Standards Codes, ACM, ABI / Inform Complete (PRO QUEST), Springer Link and Engineering Referex. Our libraries have a Video Conferencing facility and also provide classroom teaching through EDUSAT programs and NPTEL video courses in the different fields of education.











The annual TEDx Chitkara University, an ideas conference with an international perspective run under the banner of TED, the non-profit organisation 'devoted to ideas worth spreading'.



PEOPLE WHO  
**STUDY HERE**  
DO WELL

# OUR INDUSTRY ACADEMIA RELATIONSHIPS

Chitkara University maintains close link with leading corporations and professional associations to deliver most of our professional programs. Through these alliances we stay in touch with industry, ensuring that our courses are relevant, practical and deliver the skills in demand allowing our graduates to hit the ground running. Some of our leading industry collaborations are:

# OUR INDUSTRY COLLABORATIONS

CHITKARA UNIVERSITY HAS ESTABLISHED AN UNASSAILABLE REPUTATION FOR VERY STRONG CAMPUS RECRUITMENT ON THE SHEER VIRTUE OF OUR INTENSIVE FOCUS ON MAKING ALL OUR GRADUATES ÌINDUSTRY READYÏ.

- Marquee companies such as ARM, Cadence and NXP Semiconductors are supporting us in terms of supplying state of the art equipments for best hands-on classroom training.
- nVIDIA which is one of the leading companies in the parallel computing space has granted the status of "CUDA teaching Centre" to Chitkara University.
- Infosys Campus Connect and Wipro 10X Mission has provided us an important framework for our Engineering curriculum Strong linkages with Industry leaders such as CISCO, Ericsson, Dassault Systems, National Instruments & Oracle to develop and deploy industry-relevant curricula on various technologies for our Engineering curriculum.
- Our program in Mechanical Engineering has been endorsed by leading companies such as Mahindra, Rasco, Dassault Systemes, Tata Technologies And Bosch.
- Chitkara Business School is offering a unique 2 year MBA program in Human Resource management with Manpower Group which is the leading manpower consultancy in the world.
- Joint management programs with BSE Institute has helped us initiate academic programs in the realm of financial sector knowledge.
- Our program in supply chain management works towards bridging the huge skill gap prevalent in the logistics industry through our industry partner, Safexpress, India's largest supply chain & logistics company.
- All degree programs offered by the School of Health Sciences are in collaboration with Fortis Healthcare which is one of the leading healthcare providers in Asia.
- Our Optometry programs are fully endorsed by Sankara Healthcare which is one of the leading eye care chains in the country.
- The curriculum and program structure for all our Journalism and Mass Communication has been inspired and adapted from the UNESCO Model Curricula for Journalism Education.
- Strong Association with leading media corporations such as ZEE Network and other media companies has been a great support in redefining our programs in Mass Communication.









THE START  
OF SOMETHING  
**BIG**

## OUR CAMPUS RECRUITERS

SINCE INCEPTION, CHITKARA UNIVERSITY HAS A PATH BREAKING RECRUITMENT RECORD FOR GRADUATES FROM VARIOUS ACADEMIC PROGRAMS. SOME OF THE PROMINENT RECRUITERS ON CAMPUS ARE:

			
			 HINDUSTAN LEVER LIMITED
	 CONSULTING TECHNOLOGY ENTERPRISE		
			 YOUR GLOBAL KNOWLEDGE PARTNER
			 ITC Limited
		 Speed.Agility.Imagination	
		 The Power of Dreams	 Hotels Resorts and Palaces



## CAREER SERVICES

**We offer our students comprehensive opportunities to occupy themselves with questions around their career planning right from the beginning of their studies. A broadly diversified choice of career activities accompanies them during their studies and offers numerous networking opportunities with company representatives and alumni.**

### **Focus on Careers**

Chitkara prepares students for the real world and fulfilling careers. With industry representation our course continues to keep pace with real world practice making our students work-ready the moment they graduate.

### **Mentoring**

Sometimes a little advice and guidance from someone who has been there and done that can go a long way. Students have unlimited opportunities to interact with professionals from their field to build contacts and learn about new industry trends.

### **Student Support Services**

Our Career Centre provides personal career counselling, extensive career development seminars and invaluable assistance in developing one's resumes that showcase his/her skill and experiences.

### **Networking**

Smart graduates require tapping into network of people, technology and information. At Chitkara, you are connected with world-class faculty, savvy technocrats and innovators. Technical workshops with guest speakers from the industry are held regularly to acquaint you with the latest happenings.

### **Internships**

At the end of every academic year, most students are provided opportunities to pursue internships to gain some real world practical experience. Emphasis is placed on ensuring that students attending the program are placed in rewarding, real-world company assignments that extend the learning experience into areas that are not available at the University. Most of our degree programs offer the opportunity for practical, hands-on experience, internships and projects within the local community. This is why our graduates are in demand.





Specialize further with exchange programs

Work placements and internship

Volunteering

Personal development program

**BUILD  
YOUR  
DREAM  
CV**

Advice from Alumni

Careers event

Network with top employers



# CHITKARA INNOVATION INCUBATOR

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Chitkara Innovation Incubator was initiated in the year 2013 with a sprawling 15,000 sq ft facility next to Rajiv Gandhi Information Technology Park, Chandigarh which is the prime destination for major blue chip companies such as Infosys, Tech Mahindra and Airtel.

Chitkara University is a place of original thinkers; nurturing and stimulating inquisitive minds to produce graduates with innovative ideas, perspective and approaches.

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

This Innovation Hub will be one-stop shop for know-how. Entrepreneurs across Chitkara University can access seed capital opportunities, one-on-one mentoring, pro-bono support services, feedback from entrepreneurial experts, and capacity-building workshops covering everything from legal liability to effective marketing to entrepreneurial finance.

It is a community, a nexus point where innovators at Chitkara can meet, interact with other innovators, and learn from peers, all of whom are driven to create lasting positive change. That community includes undergraduate and graduate students, faculty, staff and alumni across any discipline.

**Some of the companies which have made Chitkara Innovation Incubator are**

**trideal.in**  
OUR TRICITY. YOUR SAVINGS

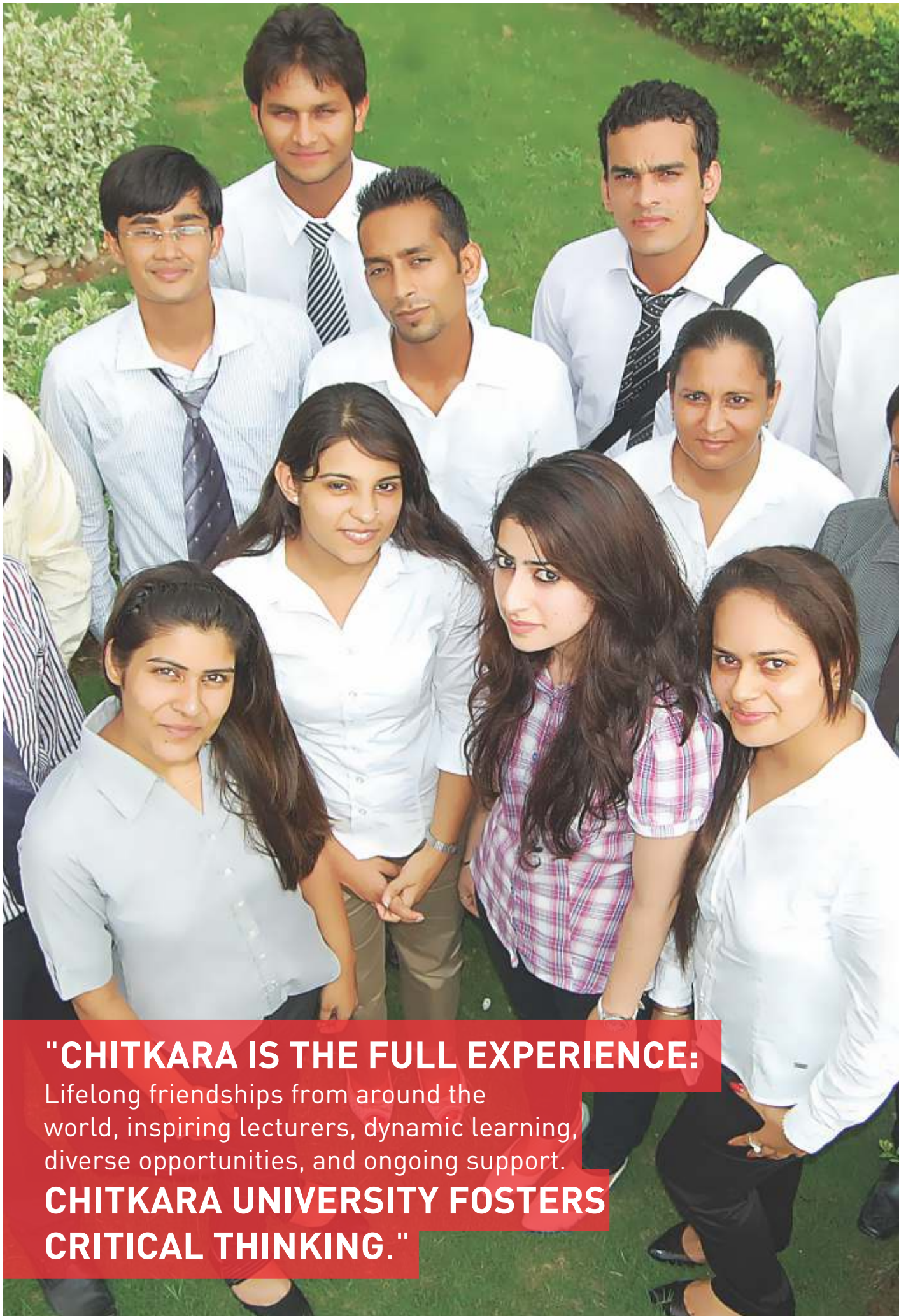


# IDEATE INNOVATE EXCEL



Chitkara Innovation Incubator is always looking at encouraging students to become entrepreneurs and regularly facilitate interaction with angel investors and start up mentors.





**"CHITKARA IS THE FULL EXPERIENCE:**

Lifelong friendships from around the world, inspiring lecturers, dynamic learning, diverse opportunities, and ongoing support.

**CHITKARA UNIVERSITY FOSTERS  
CRITICAL THINKING."**



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# CHITKARA ALUMNI NETWORK

**The net is not a net until it begins to work. Work your network today through us.**

The main components of the **CHITKARA ALUMNI NETWORK** mission are to enable alumni, students, faculty and staff to maintain their contact with the University and each other for their shared benefit and for the vital support and development of CHITKARA UNIVERSITY. One of the strongest bonds that survives with our students over the years is the class bonding and CAN provides a forum to strengthen the bond over the years. We have CAN chapters in Chandigarh and New Delhi and upcoming chapters in Pune, Mumbai, Bengaluru and many other cities in India.

## **Alumni to Alumni**

Find old friends and connect to other alumni. Join our official Chitkara Alumni Network page CAN and become a part of a huge global community.

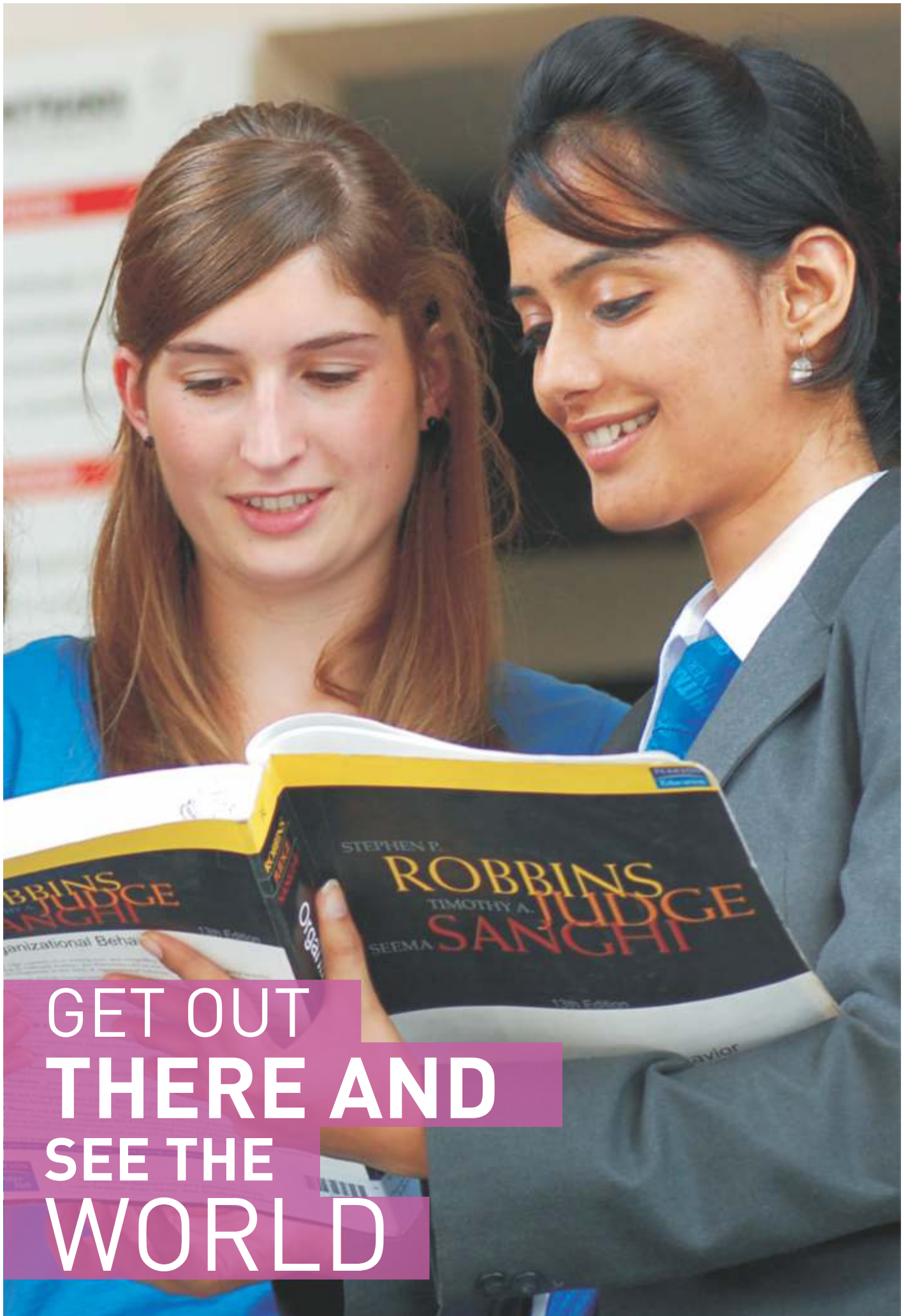
## **Alumni to the World**

Our Alumni discover business opportunities through Chitkara Alumni Network all over the world and across industries.

## **Career Services**

The career services maintains a close relationship to the alumni who significantly support on-campus activities and also help finding national and international job/internship positions. CAN helps our students stay in contact and dialogue with us, take part in the manifold events we offer them, make use of the various information services and actively engage with words and deeds.





GET OUT  
THERE AND  
SEE THE  
WORLD



# THE GLOBAL UNIVERSITY

Internationalisation and globalisation are key characteristics of today's environment. The world has become a 'Global Village' where economical, political, social and cultural dimensions are tightly intermingled. Such a platform offers not only considerable opportunities but also higher complexity. One must prepare for the future by anticipating the challenges and having a vision for the wide-ranging possibilities.

Chitkara University is prepared to face these new challenges, responding to professional and international commitments, by educating and training students and managers to be 'Global Ready' for tomorrow's world and by helping them in developing skill sets desired by future employers.

As a consequence, celebrating diversity, preparedness for international careers and 'Being Global' are embedded in our organisational culture at Chitkara University.

## **The International Experience**

Combining an international education and study abroad experience is a strong asset in today's marketplace. It gives candidates a huge competitive advantage but also greatly contributes to students' personal development.

Students from Chitkara University enjoyed unforgettable experiences during their study abroad programs, such as semester exchange and summer school programs, at partner universities in countries like Germany, France, South Korea, England and USA.

We, at Chitkara University, believe that combining a state of the art education and study abroad experience is strongly desired in today's marketplace; it enhances candidates' professional, global & intercultural competence but also greatly contributes to students' personal development. Studying abroad is also an important opportunity to build a new network of friends and contacts from all over the world, which is a major asset in an increasingly interdependent world.

## **Our Unique Global Network**

Chitkara University has established a unique network of more than a 50 partner universities and educational institutes around the globe. This co-operation network forms the basis for student as well as faculty exchange programs within the framework of our educational programs.

## **Our International and Supportive Study Environment**

With its growing number of international students and faculty, Chitkara University offers a truly international study environment. International faculty from partner universities teach short-term courses to students of Chitkara University during global events such as global engineering, automotive and business weeks.

**CHITKARA UNIVERSITY STUDENTS ARE EXPOSED TO A HOST OF INTERNATIONAL PROGRAMS WHICH RESULTS IN A TRULY "GLOBAL" PROFESSIONAL.**

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# STRONG INTERNATIONAL FOCUS

**Programs taught in English by local and international faculty, student exchanges from partner universities all over the world, international research co-operation, dual-degree and twinning program development by international partners, international faculty exchange; all of these are key features of Chitkara University.**

## **Twinning Programs**

Chitkara students have option to finish the last 1/2 years of their degree programs at our partner Universities which helps them gain Dual degrees in they chosen specialisations.

## **Semester Exchange**

Students visit Partner Universities for six months to one year for completing their semesters abroad.

## **Summer Programs**

Summer Program is short duration program of 15 days to one month on various specialisations. It adds to the international exposure of the students.

## **International Competitions**

Students participate in competitions conducted by several institutions & organisations at International Level such as MUN.

## **International Conferences**

Students participate in International conferences that help them to experience International academic standards.

## **Leadership Camps**

Student based leadership camp for 15 days or more and as off now the students generally travels to South Korea.

## **Study Based Scholarships**

Partner Universities offer full year scholarships and semester long scholarships to students through which study is absolutely free for the students for those terms.

## **International Faculty**

We regularly invite faculty from accredited Institutions across the world and it helps our students to understand diverse Education standards



# THE EXCHANGE EXPERIENCE







# Global Connections

CHITKARA UNIVERSITY HAS STRONG AGREEMENTS FOR FACULTY AND STUDENT ACADEMIC EXCHANGE WITH TOP EDUCATION PROVIDERS ACROSS THE WORLD. SOME OF THE MAJOR INSTITUTIONS ARE

## ASIA

### SOUTH KOREA

- Soongsil University
- Kookmin University
- Korea University(Sejong Campus)
- Kongju National University
- Chung Ang University
- Kyung Hee University
- Sookmyung Women's University
- Hanbuk University
- Chonbuk National University
- Kyungpook National University
- Chosun University
- Sangmyung University
- Jungwon University

### CHINA

- Qilu University of Technology
- Zhejiang University of Science & Technology
- Qingdao Technological University Qindao College

## INDONESIA

- Binus Univesity
- Telkom University

### TAIWAN

- China Medical University
- Providence University

## MALAYSIA

- HELP University

## AUSTRALIA

- Deakin University
- Edith Cowan University
- Flinders University

## SOUTH AMERICA

### BRAZIL

- The Pontificia Universidade Catolica DO Rio Grande Do Sul

## NORTH AMERICA

### U.S.A

- Central Michigan University
- University of Florida
- Purdue University
- San Diego State University
- University of Massachusetts, Lowell
- Missouri University of Science and Technology
- Northern Illinois University
- Northern Arizona University
- Portland State University

### CANADA

- George Brown College
- British Columbia Institute of Technology
- Kings University College at Western University
- University of Prince Edward Island (UPEI)
- Vancouver Island University
- Georgian College



## MEXICO

- Universidad Autonoma Deestado De Hidalgo

## EUROPE

### U.K

- Glasgow Caledonian University
- Anglia Ruskin University

### NETHERLANDS

- Fontys University of Applied Sciences

### SPAIN

- University of Alicante

### FINLAND

- Helsinki Metropolia University of Applied Sciences

## GERMANY

- Cologne Business School
- Karlshochschule International University
- Hochschule Osnabruck University of Applied Sciences Osnabruck
- Duale Hochschule Baden Wurttemberg (DHBW)

### BELGIUM

- IHECS

### PORTUGAL

- Politecnico De Coimbra

## FRANCE

- ESIGELEC ñ School of Engineering Rougen
- Ecole Pour Lí Informatique Et Les Techniques Avacees- EPITA
- EM Normandie
- Kedge Business School
- Institute Dí Etudes Politiques De Toulouse
- Sciences Po Lille
- ISTIA-Universite Angers
- Université Montpellier 2 Sciences et Techniques









# LEARNING IS FUNDAMENTAL

Chitkara University in a nutshell? - Cool vibes, great events and excitement all year round, sports, theatre, excursions, always somebody home next door. That is it.













# STUDENT LIFE 2.0

Student life at Chitkara University is more than just ardent toil next to a big pile of books. The wide range of clubs and students associations, as well as the surrounding environment, provides memorable experiences ranging from culture to sports & fitness.











CHITKARA  
SCHOOL OF  
HEALTH SCIENCES



# CHITKARA SCHOOL OF HEALTH SCIENCES

Healthcare industry is the largest growing industry. There is a large gap between need of competent and supply of good quality healthcare professionals. This necessitates the initialisation of more and more educational institutions to meet local, national and global demand for health care providers. Considering this, Chitkara School of Health Sciences was established in North India exclusively dedicated to the education of health care professionals.

We envision training and developing health care professionals who can create a difference in the quality of life of all those who require healthcare. Our graduates have great scope for employment in corporate hospitals, rehabilitation centers, polyclinics, industries, training institutions in India and abroad, apart from the option of private practice. It is one of the largest private healthcare training facilities in North India.

We feel this as to be the appropriate time to get trained human resource in Healthcare Institutions to take-up the challenges in the modern global healthcare institutions. The practical inputs are provided through our strong industry collaborations with industry leaders in healthcare management such as Fortis Healthcare and Sankara Eyecare. Our course curriculum is a blend of theory, practice and clinical exposure whereas the theoretical knowledge is provided through internal and external faculties and practical experience is delivered with the help of our industry partners.

For the academic year 2015, we are offering the following programs:

## **Programs in collaboration with Fortis Healthcare**

4-year B.Sc Nursing (Basic)

3-year B.Sc Medical Laboratory Technology (MLT)

3-year B.Sc Medical Imaging Technology (MIT)

3-year B.Sc Operation Theatre Techniques (OTT)

## **Programs in collaboration with Sankara Eyecare**

4-year B. Optometry

2-year Master in Clinical Optometry

# HEALTHCARE INDUSTRY IN INDIA

The Indian healthcare sector is expected to reach US\$ 100 billion by 2015 from the current US\$ 65 billion, growing at around 20 per cent a year, according to rating agency Fitch. India's rapid growth has brought about a "health transition" in terms of shifting demographics, socioeconomic transformations and changes in disease patterns. The major factors driving the growth in the sector include increasing population, growing lifestyle related health issues, cheaper costs for treatment, thrust in medical tourism, improving health insurance penetration, increasing disposable income, government initiatives and focus on Public Private Partnership (PPP) model.

The Government of India has decided to increase health expenditure to 2.5 per cent of gross domestic product (GDP) by the end of the Twelfth Five Year Plan (2012-17), from the existing 1.4 per cent.

Allied Health professions are distinct from medicine, dentistry, and nursing. One estimate reported allied health professionals make up 60 percent of the total health workforce. They work in health care teams to make the health care system function by providing a range of diagnostic, technical, therapeutic and direct patient care and support services that are critical to the other health professionals.

Many allied health jobs are considered career ladder jobs because of the opportunities for advancement within specific fields. These may include basic life support; medical terminology, acronyms and spelling; basics of medical law and ethics; understanding of human relations; interpersonal communication skills; counseling skills; computer literacy; ability to document healthcare information; interviewing skills; and proficiency in word processing; database management and electronic dictation.

## Key Features

- According to a report by Price Waterhouse Coopers, an estimated 189 million people in the country will be more than 60 years of age by 2025, needing higher healthcare spends.
- A combined study by an industry body and Ernst & Young suggests that India will need as many as 1.75 million additional beds by the end of 2025. Further, an investment of US\$ 86 billion is required to achieve 1 doctor, 2 beds and 2.3 nurses per 1000 population by 2025.
- As per the report, "Healthcare Information Technology Market in India" released by Frost & Sullivan electronic medical record (EMR) services have a high growth potential at an estimated compound annual growth rate (CAGR) of 13.5 per cent from 2009 to 2016. With many new private hospitals opening in the next few years, investment in EMR is expected to become a necessity for these hospitals.
- Medical tourism in India has also received a boost with arrival of patients from countries with advanced medical systems. This underlines the fact that India has good infrastructure and talent.



# FORTIS HOSPITALS



**Fortis Hospital, Mohali**



**Escorts Heart Institute & Research Centre Ltd, Okhla**



**Fortis Hospital, Noida**



**Fortis Hospital Ludhiana**



**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 Flt. Lt. Rajan Dhall Hospital, Vasant Kunj**



**Fortis Kangra, HP**



**Fortis Mysore**

## SOME OTHER HOSPITALS ARE

- Fortis Memorial and Research Institute, Gurgaon
- Fortis Hospital, Cunningham Road - Bengaluru
- Fortis Hospital, Rajajinagar - Bengaluru
- Fortis Hospital & Kidney Institute - Kolkata
- Fortis Hospitals, Mulund Goregaon - Mumbai
- Fortis Vivekanand Hospital - Moradabad UP
- Fortis Hospital, Bannerghatta Road - Bengaluru
- Fortis Hospital, Nagarbhavi - Bengaluru
- Marathali Specialty Clinic - Bengaluru
- Fortis Hospital, Anandapur - Kolkata
- Fortis Kalyan Hospital - Mumbai
- Fortis Escorts Hospital - Dehradun

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## HEALTHCARE PROGRAMS IN COLLABORATION WITH FORTIS HEALTHCARE

Chitkara School of Health Sciences in collaboration with Fortis Healthcare conducts 3-year full time B.Sc in Allied Healthcare and 4-year B.Sc Nursing (Basic).

Chitkara University and Fortis Healthcare Limited, two prominent players in their respective fields, having realized the need to build an interface between Academia and Industry, have joined hands to produce quality healthcare professionals in the allied healthcare fields. The training methodology will provide integrated inputs which will help to develop high degree of conceptual skills, analytical skills and quality technical knowledge base among aspirants and prepare them for hospitals and related healthcare domains.

### Fortis HealthCare Limited



Fortis Healthcare Limited is a leading, pan Asia-Pacific, integrated healthcare delivery provider. The healthcare verticals of the company span diagnostics, primary care, day care specialty and hospitals, with an asset base in 7 countries, many of which represent the fastest-growing healthcare delivery markets in the world.

Currently, the company operates its healthcare delivery network in Dubai, Hong Kong, India, Mauritius, Singapore, Sri Lanka, and Nepal with 76 hospitals, over 12,000 beds, over 600 primary care centres, 191 day care specialty centres, over 230 diagnostic centres and a talent pool of over 23,000 people.

Fortis Healthcare has been at the forefront of providing quality healthcare services and has raised the bar of quality standards in country. Due to its excellent quality care and safety for patients, Fortis Hospital Mohali has received the highly prestigious JCI accreditation (Joint Commission International) and NABH accreditation (National Accreditation Board for Hospitals and healthcare providers), the highest national recognition for quality patient care and safety.

Fortis Healthcare is driven by the vision of becoming a global leader in the integrated healthcare delivery space and the larger purpose of saving and enriching lives through clinical excellence.

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# BACHELOR OF SCIENCE NURSING

## 4-Year B.Sc Nursing (Basic)

### Program Objectives

Our nursing program aims to create leaders in the nursing professionals by providing unique, innovative program that is responsive to the market need, keeping in mind the rapid advance in the health care sector in India as well as abroad. The curriculum emphasizes on a holistic approach to nursing care, in order to ensure an all round growth of the nursing students. Student nurses will be trained to meet the international standards of professionalism and maintain the highest standard of clinical practice. They will receive training in basic nursing procedures which will help them to give basic care to patients. and are given training in developing basic skills in the laboratory, in simulated conditions, before they are exposed to actual hospital situations.

### Accreditation

Our 4 year B.Sc. (Nursing) is fully recognized by Indian Nursing Council (INC) and Punjab Nursing registration Council (PNRC).

### Industry Internship

Our collaboration with Fortis (Mohali) will be our key partner to provide the necessary "hands on" clinical and paraclinical experience; necessary for the students pursuing this hospital based academic program. The overall aim of nursing program is to prepare a graduate Nurse to work as frontline worker in the clinical and community field and educational arena.

### Program Contents and Academic Framework

On completion of the B.Sc. Nursing program, the graduate will be able to:

- Apply knowledge from physical, biological and behavioral sciences, medicine including alternative systems and nursing in providing nursing care to individuals, families and communities.
- Demonstrate understanding of life style and other factors, which affect the health of individuals and groups.
- Provide nursing care on the steps of nursing process in collaboration with the individuals and groups.
- Demonstrate critical thinking skills in making decisions in all situations in order to provide quality care.
- Utilize the latest trends and technology in providing health care.
- Provide promotive, preventive and restorative health services in line with the national health policies.
- Practice within the framework of code of ethics and professional conduct, and acceptable standards of practice within the legal boundaries.
- Communicate effectively with individuals and groups and members of the health team in order to promote effective interpersonal relationships and teamwork.
- Demonstrate skills in teaching to individuals and groups in clinical/community health settings.
- Participate effectively as members of health team in health care delivery system.
- Demonstrate leadership and managerial skills in clinical/community health settings.
- Conduct need based research studies in various settings and utilize the research findings to improve the quality of care.
- Demonstrate awareness, interest and contribute towards advancement of self and of the profession.





## Our Academic facilities

The laboratory attached to the nursing school is equipped to carry out screening of all common ailments e.g. Diabetes, Hypertension and Anemia. In addition, the laboratory has specially designed bags to carry the necessary equipment for home care like thermometer, articles for urine testing, growth monitoring, dressing and physical examination. Some of the other laboratories are

- Obstetric and Gynecological Nursing Laboratory having all the equipments, delivery table with normal delivery manikins and delivery sets in order to provide the students enough competencies for developing into skilled and competent midwives.
- Pre-clinical laboratory is having all the equipments, consumable and non-consumable items for providing the students with knowledge regarding basic subjects such as human anatomy and physiology, biochemistry and microbiology so that they should be able to correlate this knowledge with practical understanding of disease conditions.
- Besides the infrastructure of the college, the well equipped laboratories and clinics of various departments of Fortis Mohali will support various academic and research activities.

We offer **special courses** in communication skills, besides computer skills with the aim to

- Improve interaction skills with multidisciplinary team and their clients in hospitals
- Exercise analytical skills when confronted with critical situations.
- Make them familiar with use of computer and related technology
- Make them self-confident

Along with these special courses, students have the opportunity to attend various workshops, certification programs for developing their competencies in the clinical nursing, as well as related to management and education. The programs maybe on the following themes:

- |   |   |
|---|---|
| ● Emergency Nursing                         | ● Workshops on Basic Life Support (BLS) |
| ● Critical care Nursing                     | ● Advanced Cardiac Life Support         |
| ● Nursing Management skill                  | ● Advanced Trauma care                  |
| ● Innovative Nursing Education methods etc. | ● Disaster Management Programs          |
| ● Medico Legal Education                    |   |

## Employability

On completion of the B.Sc Nursing, they can work as clinical nurses, managers, researchers and educators who possess the professional knowledge, critical thinking, ethical decision-making, leadership skills, and the independent and interdisciplinary pursuit of high standards of health care.

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# BACHELOR OF SCIENCE

## 3-Year B.Sc Medical Laboratory Technology

### Program Objectives

A Medical Laboratory Technologist (MLT) is a healthcare professional who performs chemical, hematological, immunologic, microscopic, and bacteriological diagnostic analyses on body fluids. The technologist also performs equipment validations, calibrations, quality controls or run-by-run assessment, statistical control of observed data, and recording normal operations.

At Chitkara School of Health Sciences, a graduate for Medical Laboratory degree programs will attend classroom courses for two years and clinical rotations are completed in their final year of study. This combination is called a 2+1 program.

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. Although not compensated, a student in the clinical phase of training usually works 40 hours per week for 52 weeks, experiencing work as a full-time employee.

At Chitkara School of Health Sciences, the MLS are promoted to become specialists, qualified by unique graduate education and / or additional training to perform more complex analyses than usual within a specific field.

### Industry Internship

After having successfully completed the second year University examination the student will be qualified to commence the Compulsory Rotatory Internship for one year at fortis hospital. The completion of internship is mandatory to enable a student to obtain the degree of Bachelor of Medical Laboratory Technology.

### Program Contents and Academic Framework

Our B.Sc. MLT program lays special emphasis on

- Human Anatomy
- Human Physiology
- Microbiology
- Fundamentals of Haematology
- Cytology & Cytotechniques
- Cytogenetics & Tissue Culture

### Employability

- After successful completion of program a student will be capable of holding assignments in hospital and health care 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 specialized field of study and can progress as scientists and even can enjoy faculty positions in academic institutions.
- Students can get placed as scientific officer, quality assurance officer.



# BACHELOR OF SCIENCE

## 3-Year B.Sc Medical Imaging Technology

Medical imaging is the technique and process used to create images of the human body (or parts and function thereof) for clinical purposes (medical procedures seeking to reveal, diagnose or examine disease) or medical science (including the study of normal anatomy and physiology).

### **Medical Radiological Technologist:**

A Radiologic Technologist, also known as medical radiation technologist and as radiographer, performs imaging of the human body for diagnosis or treating medical problems.

Nature of the work

### **Radiologic technology modalities (or specialties) include**

- Diagnostic radiography deals with examination of internal organs, bones, cavities and foreign objects; includes cardiovascular imaging and interventional radiography.
- Sonography uses high frequency sound and is used in: obstetrics (including fetal monitoring throughout pregnancy), necology, abdominal, pediatrics, cardiac, vascular and musculo-skeletal region imaging.
- Fluoroscopy live motion radiography (constant radiation) usually used to visualize the digestive system; monitor the administration of contrast agents to highlight vessels and organs or to help position devices within the body.
- CT (Computed Tomography) which provides cross-sectional views (slices) of the body; can also reconstruct additional images from those taken to provide more information in either 2 or 3D.
- MRI (Magnetic Resonance Imaging) builds a 2-D or 3-D map of different tissue types within the body.
- Nuclear Medicine uses radioactive tracers which can be administered to examine how the body and organs function, for example the kidneys or heart.





- Radiotherapy uses radiation to shrink, and sometimes eradicate, cancerous cells/growths in and on the body.
- Mammography use low dose x-ray systems to produce images of the human mammary glands.

### **Industry Internship**

Chitkara University students complete their third year internship at Fortis Hospital. The completion of internship is mandatory to enable a student to obtain the degree of Bachelor of Medical Imaging Technology.

### **Program Contents and Academic Framework**

Our B.Sc. MIT program lays special emphasis on

- Human Anatomy
- Human Physiology
- Radiation Physics
- Radio Diagnosis
- Pathology
- Medical Microbiology
- Medical Biochemistry
- Specialised Diagnostic Techniques
- Radiological Technology
- Radiotherapy

### **Employability**

- After successful completion of program a student will be capable of holding assignments in hospital and health care institutions, research laboratories and diagnostic centres.
- Students with an instinct to learn can do higher studies in specialized field of study and can progress as scientists and even can enjoy faculty positions in academic institutions.

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# BACHELOR OF SCIENCE

## 3-Year B.Sc Operation Theater Techniques

### Program Objective

The three years Bachelor of Science (B.Sc.) Degree in Operation Theatre Techniques program has been designed for meeting the demand of the growing needs of experts in the fields of operation theatre management, medical ethics, anaesthesia technology, post operation care.

The Operation Theatre and Anesthesia Technologist 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.

### Industry Internship

Chitkara University students complete their third year internship at Fortis Hospital. The completion of internship is mandatory to enable a student to obtain the degree of B.Sc Operation Theater Techniques.

### Program Contents & Academic Framework

Our B.Sc. OTT program lays special emphasis on

- Applied Anatomy and Physiology
- Clinical Pharmacology
- Clinical microbiology
- Medical Ethics.
- Anaesthetic techniques
- CSSD Procedures
- Intensive care

### Employability

Operation Theater Technologists are required across all hospitals for conduct of surgeries which include

- General Surgery
- Ophthalmic Surgery
- Orthopaedic
- Gynaecology Surgery
- Plastic Surgery
- ENT surgery
- Neurosurgery
- Cardio Therapy Surgery
- Spinal Surgery
- Urology etc.



## OPTOMETRY PROGRAMS IN COLLABORATION WITH SANKARA EYE CARE

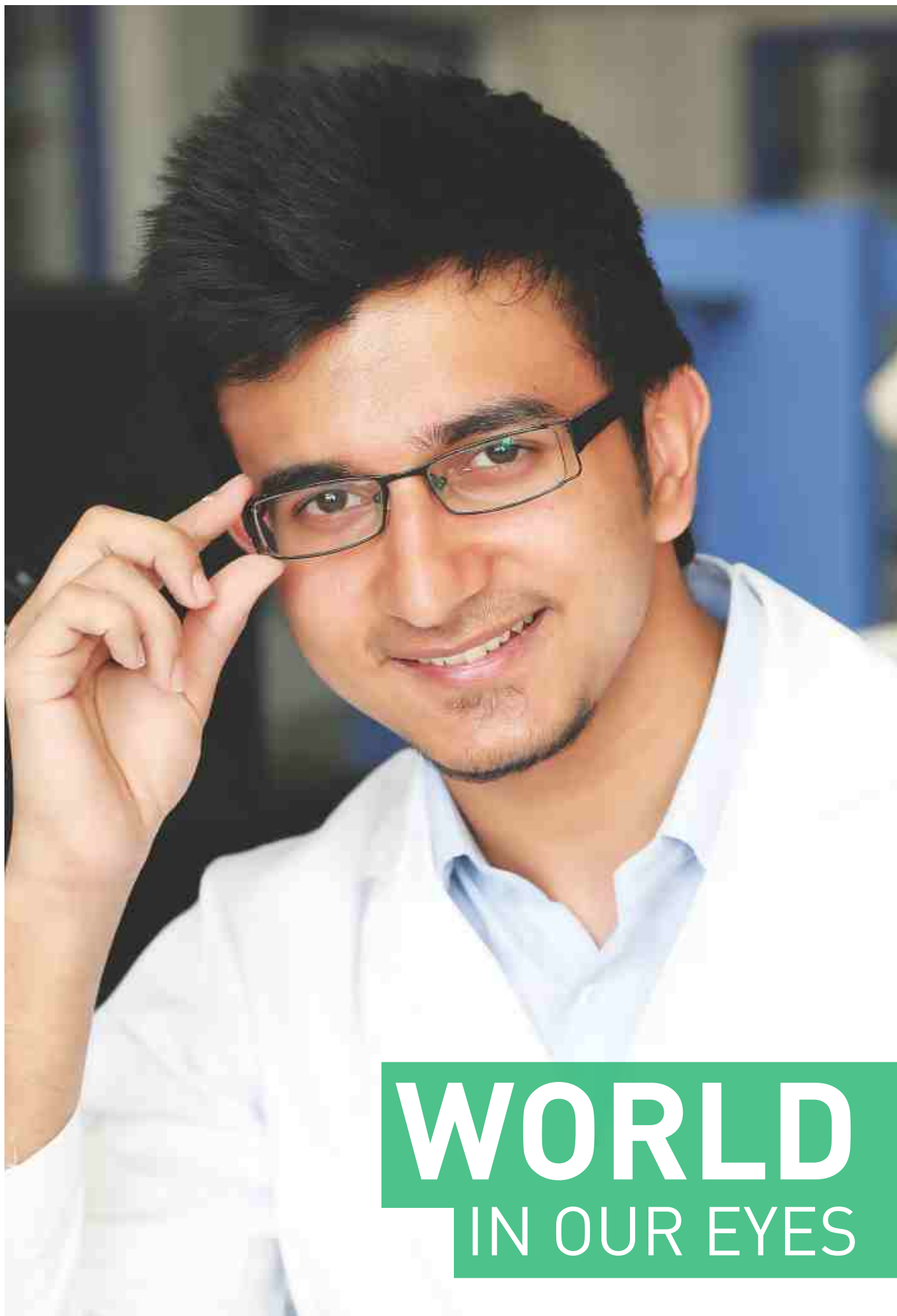


Sankara Eye Care is a group of 11 eye hospitals comprising a team of 125 doctors, 600 paramedical professionals, 275 support staff and has touched the lives of over 40 million people in these 35 plus years. Its mission towards freeing mankind of preventable and curable blindness continues to follow divine light. The vision of Sankara was born from the need to provide quality eye care to everyone, regardless of socio-economic, religious, linguistic and geographical backgrounds. Over the years, Sankara has become an institution that is known for affordable, super-specialty eye care, while firmly believing that increased accessibility to such services is the key to eliminating needless blindness in India. With these facilities and the best of optometric faculties, Chitkara and Sankara are well placed to provide Optometry education of the highest levels.

For the academic year 2015, we are offering the following programs in collaboration with **Sankara Healthcare**

- 4-Year Bachelor of Optometry
- 2-Year Master in Clinical Optometry





**WORLD**  
IN OUR EYES

# BACHELOR OF OPTOMETRY

## 4-Year B. Optom

Chitkara School of Health Sciences in collaboration with Sankara Eye Care has initiated a 4-year full time Bachelor of Optometry. The training methodology provides integrated inputs which help to develop a high degree of conceptual skills, analytical skills and quality technical knowledge base among aspirants and prepares them for bright future in the Eye Industry.

### Program Overview

Our four-year Optometry program is designed to provide you with all the theoretical and practical knowledge and skills needed to become a qualified optometrist. Optometrists do much more than supply spectacles and contact lenses. An optometric examination includes screening for signs of disease that may need medical attention. Optometrists may also offer specialist advice and treatment to patients having problems with low vision, binocular vision, and those with specific learning difficulties such as dyslexia.

### Program Highlight

- 1.5-Year on campus
- 1.5-Year at Sankara Eye Hospital Ludhiana
- 1-Year Paid Internship in Sankara Network Hospital across the country

## PROGRAM CONTENT

First Year	Second Year	Third Year	Fourth Year
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	Low Vision Aids & Geriatric Optometry Contact Lens Systemic diseases & Glaucoma Dispensing Optometry & Occupational Optometry Pediatric Optometry, Binocular vision & Advances in Optometry Project Clinics & Specialities	Internship
Computer programming English Mathematics	Medical Psychology Communications & Public relations	Practice management Law & Optometry Public health, Epidemiology & Biostatistics	



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## MASTER IN OPTOMETRY

### 2-Year M. Optom with specialisation in Clinical Optometry

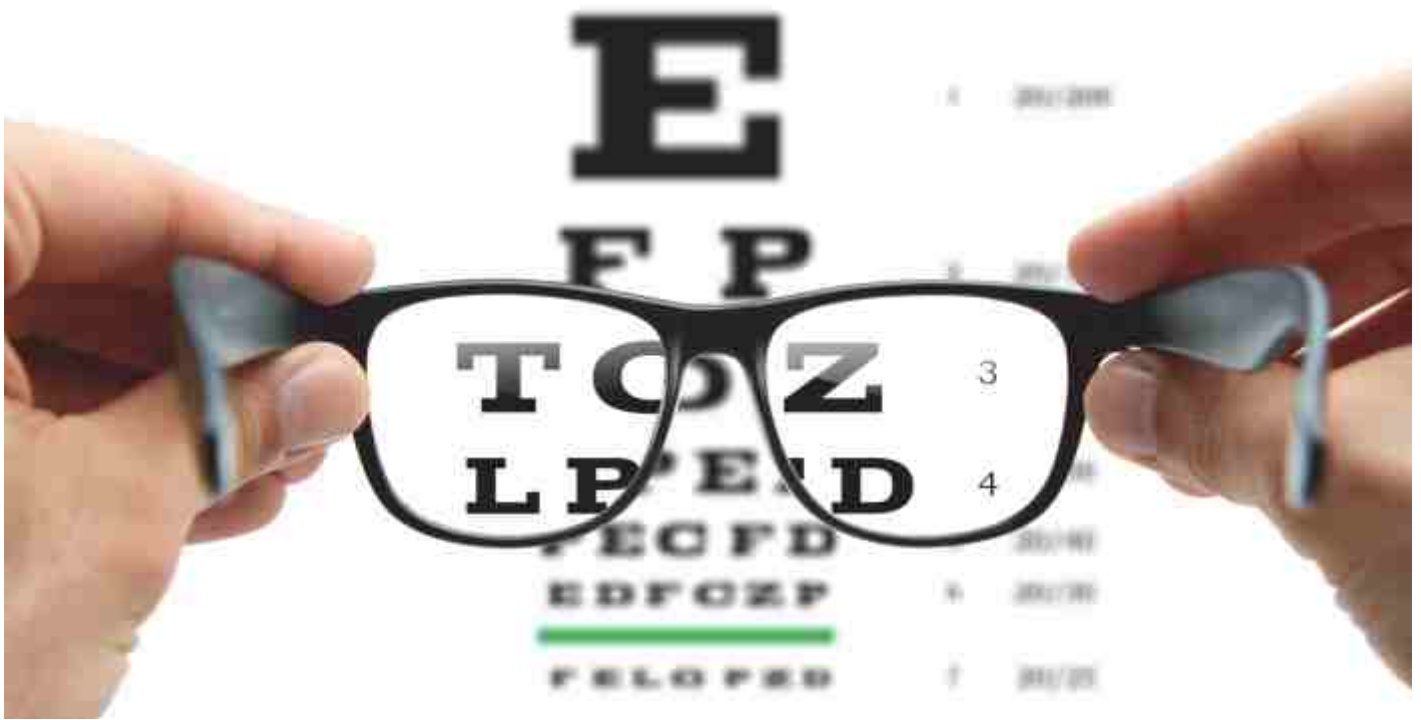
Chitkara School of Health Sciences, in collaboration with Sankara Eye Care Institutions offers a two year Masters in Clinical Optometry - M.Optom.

A higher professional degree in Optometry equips students to offer specialist advice on eye care and provide timely diagnostic intervention. Sound training in Optometry also enables professionals to specialize in the fields of low vision, advanced contact lenses, binocular vision, vision therapy, rehabilitation, neuro optometric rehabilitation and behavioural optometry etc. This program offers students great advantage in terms of hands-on exposure and rigorous theoretical training. In a nutshell, a career in optometry offers personal growth, unlimited opportunity, respect in society, contribution to the community for improving healthcare and therefore the quality of life, job flexibility and financial success.

#### Program Overview

The students will undergo lectures at the University and the clinical component of the course would be conducted at Sankara Eye Care. This would provide opportunity to Optometrists who are employed to further their education as there will be clinical modules every semester, which will be conducted at Sankara Eye Hospital.





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## CAREER OPTIONS IN OPTOMETRY

An optometrist tests the visual acuity and prescribes corrective lenses. Adept at handling eyetesting equipment to examine a person's vision, the optometrist also fabricates lenses to prescribed specifications and fits them and other low-vision aids to suit individual requirements. In fact, optometry is the first line of defence against blindness as it deals with refraction, eyewear Rx, contact lens fitting, low-vision aid evaluation and referrals mainly to ophthalmology. Hi-precision machines are used to polish and harden lenses. With an increasing aged population and the growing incidence of muscular degeneration and diabetic retinopathy ó optometrists can be an important part of the primary treatment. Besides the need for spectacles and contact lenses, low-vision aids and co-management of eye disorders spell good news for optometry as a profession.

Optometrists usually work in eye hospitals, clinics and opticians' outlets or with multinational vision care companies. You may also specialise in particular types of vision disorders (i.e. infractive errors like presbyopia, squints, colour blindness). After gaining experience in a private establishment or with a lens manufacturer, you can open your own business. You will be surprised to know that optometry features among the top 10 income-earning professions in the US. Flexibility in practice and myriad choices in geographic location form the icing on the cake.

Just look at the figures: every third blind person in the world lives in India, 75% of which 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 and experienced optometrist is always in demand.

**www.chitkara.edu.in**  
admissions@chitkara.edu.in

**For more information about the University  
give a miss call on 1800 267 1999**

**Admissions Helpline:**  
**Chandigarh : +91 95011 05714 | 95011 05715**



**UNIVERSITY CAMPUS**  
Chandigarh-Patiala National Highway,  
Punjab- 140 401

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