SUSTAINABLE DEVELOPMENT GOALS

AT CHITKARA UNIVERSITY, PUNJAB, INDIA

REPORT FOR 23-24

CHITKARA UNIVERSITY

Dr. Sandhir Sharma,
Vice Chancellor

Foreword

As we approach the milestone of the United Nations Sustainable Development Goals (SDGs) for 2030, Chitkara University remains deeply committed to these global targets. We understand that achieving an equitable, resilient, and sustainable future demands a collective effort—one that brings together communities, industries, and educational institutions around the world. At Chitkara University, we are embracing this responsibility with urgency, particularly as we face the critical and interconnected challenge of climate change.

Our students are at the heart of our sustainability journey. At Chitkara, we encourage students to engage with real-world issues, equipping them with the skills, awareness, and dedication needed to make meaningful contributions to the SDGs. Through hands-on projects, sustainability initiatives, and active participation in research on climate resilience, our students are not only preparing for successful careers but also playing an essential role in creating a sustainable and just world. Their passion and creativity are vital as we work towards building an inclusive future that prioritizes the environment, social equity, and economic growth.

Artificial Intelligence (AI) and other emerging technologies hold immense promise for advancing the SDGs, and we are already witnessing their transformative impact on health, education, climate monitoring, and sustainable energy. However, we recognize the need to approach these technologies with care, ensuring they are grounded in human values and used in ways that promote inclusivity and equality. As we incorporate AI into our research and projects, we do so with a commitment to using it wisely, mindful of both its power and its potential risks. This balanced approach is essential for building a future where technology truly serves all of humanity.

This report showcases our progress, our partnerships, and our commitment to continuous improvement as we drive forward on this path. With a foundation built on values like respect, integrity, and collaboration, we are striving to make a positive impact for current and future generations. Together, we at Chitkara University stand ready to lead, innovate, and inspire towards a better, more sustainable tomorrow.

With warm regards,

CHITKARA UNIVERSITY

Acknowledgement

CHITKARA UNIVERSITY

CHITKARA UNIVERSITY

CHITKARA UNIVERSITY | Centre of Excellence for Sustainability

1 NO POVERTY

Jul 2023 – June 2024

Key Initiatives:

1. **Publications**: - 20

2**. Scholarships**: Underprivileged and deserving students under various categories were benefited from scholarships, supporting academic excellence, financial needs, and inclusivity.

3. **Earn While You Learn**: This is a program on our campus allowing talented students, who may be from economically weaker sections of the society, to gain practical experience and financial stability while studying, fostering career readiness.

4**. Community Outreach**: The campus strived to reach out to the community through charity event, vertical farming demonstration for farmers, blanket and toys donation drives and other donation drives.

Students are encouraged to share their well-used belongings with the lesser privileged children in the labour colony as well as in our near by villages.

5. **Consultancy and Agricultural Support**: Chitkara University provided consultancy on rice cultivation.

6**. Environmental and Social Impact**: Students engaged in an educational carnival through Exhibition (Chitkara Mandi) that combined business with social causes, supporting local villagers.

7. **Job Placement for Underprivileged**: Chitkara University helped underprivileged candidates secure employment, offering training in hospitality. Overall, Chitkara University's initiatives under SDG 1 focus on reducing poverty, providing educational opportunities, promoting community welfare, and ensuring health and environmental sustainability through its diverse programs and outreach efforts.
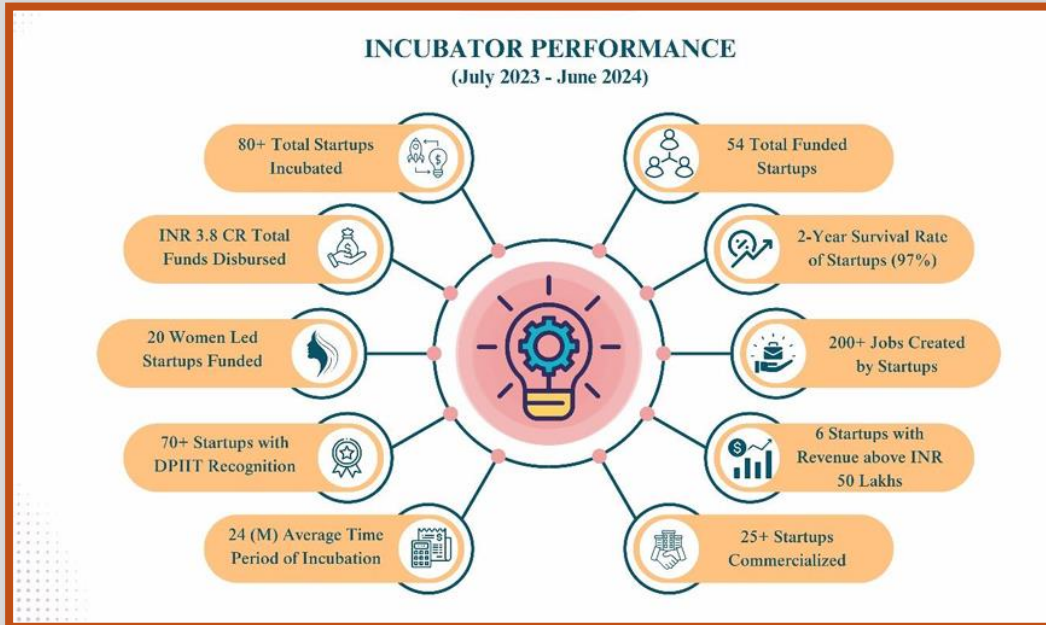
Publications – 20
Courses – 8
Student Activities – 11

More at –
https://sustainable.chitkara.edu.in/pdfs/sdg/SDG-1-Report.pdf

ENTREPRENEURSHIP

Entrepreneurship at Chitkara University is a cornerstone of its mission, dedicated to transforming innovative ideas into successful ventures. The university fosters an entrepreneurial spirit among students, faculty, staff, and the broader community by encouraging and supporting the development of entrepreneurial initiatives. Through its dedicated units, the Chitkara Innovation Incubation Foundation (CIIF) and the Centre for Entrepreneurship Education & Development

INCUBATOR PERFORMANCE
(July 2023 - June 2024)

- 80+ Total Startups Incubated
- 54 Total Funded Startups
- INR 3.8 CR Total Funds Disbursed
- 2-Year Survival Rate of Startups (97%)
- 20 Women Led Startups Funded
- 200+ Jobs Created by Startups
- 70+ Startups with DPIIT Recognition
- 6 Startups with Revenue above INR 50 Lakhs
- 24 (M) Average Time Period of Incubation
- 25+ Startups Commercialized

- 24+ Startups Registered
- 95% Startups from Tier 2 & 3 Cities
- 100+ Employment through Startups
- 4 Average Employees per Startup
- 85% Startups with Women Directors
- 21 Number of Women Directors

(CEED), Chitkara University provides a structured environment for nurturing and mentoring ideas. These units meticulously filter and refine ideas, offering expert guidance to ensure they evolve into viable and successful enterprises. The support extends not only to new ideas but also to existing ventures that may be struggling, helping them pivot and achieve success. By combining resources, mentorship, and a robust support system, Chitkara University plays a pivotal role in turning entrepreneurial dreams into reality, demonstrating its unwavering commitment to fostering innovation and entrepreneurship.

SCHOLARSHIP FOR STUDENTS

SEMESTER

JULY-2023 TO JUNE-2024

STIPEND/FELLOWSHIP

MERIT BASED SCHOLARSHIP

SIBLINGS SCHOLARSHIP

FINANCIAL SUPPORT SCHOLARSHIP FOR EWS

SCHOLARSHIP FOR THE WARD OF FACULTY/STAFF OF CHITKARA UNIVERSITY

SCHOLARSHIP FOR SPORTS PERSON

DEFENCE PERSONNEL SCHOLARSHIP SCHEME
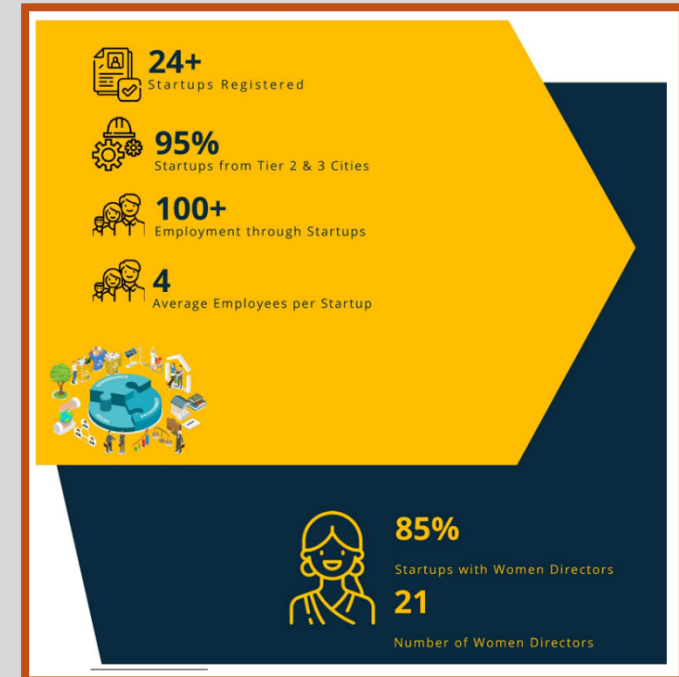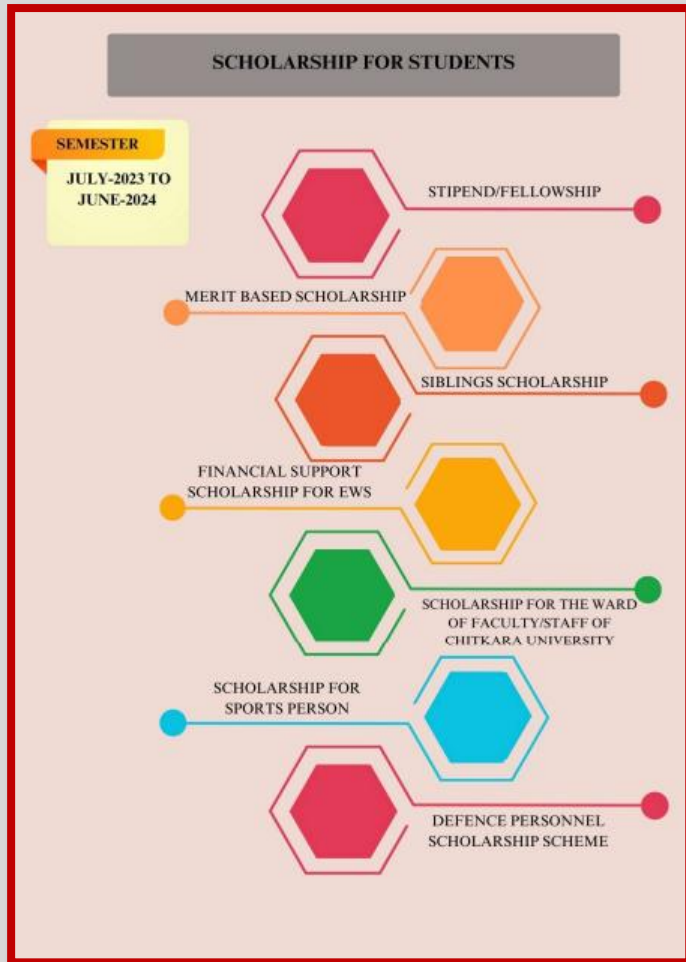
SCHOLARSHIPS

Chitkara University offers a variety of scholarships to support students from diverse backgrounds and abilities. These include merit-based scholarships for high achievers, financial assistance for economically weaker sections (EWS), and special provisions for siblings of current students. The university also provides scholarships for the children of faculty and staff, as well as for sportspersons, recognizing their achievements in athletics. Additionally, there is a scholarship scheme for the wards of defence personnel, honouring their service and commitment. These scholarships aim to promote academic excellence and inclusivity, ensuring that all students have access to quality education and opportunities for personal growth

LOCAL STAFF DEPLOYED

Chitkara University, established in 2002, began its journey with a vision to foster local talent and promote regional development. In its early days, the university prioritized hiring local staff, creating job opportunities and integrating itself into the community. Over the years, Chitkara University has evolved into a reputable institution, known for its commitment to academic excellence and holistic development, while remaining deeply rooted in its local community.

EARN WHILE YOU LEARN

"Earn While You Learn" is a program at Chitkara University, Punjab, designed to help students gain practical experience while pursuing their studies. This initiative allows interns to work in various fields, enhancing their skills and earning an income

simultaneously. The data includes profiles of participating interns, job & roles. By balancing work and education, students are better prepared for their future careers, fostering a seamless transition from the classroom to the workplace.

EMPLOYMENT OPPORTUNITY

SDGs put on our shoulders a responsibility where we leave no one behind in hunger or in poverty. It was a proud moment for us when two children from EWS families of our adopted villages were facilitated jobs at a famous hotel in Dubai. All their expense for their passports and readiness was made from Chitkara University (through CSH and NSS). The job opportunity was facilitated by a very renowned 5 Star Hotel.

More details on -
https://www.youtube.com/watch?v=RK06nXtUnLo&t=338s

DONATIONS

Students on campus are always encouraged to share their well-used belongings with the lesser privileged students on campus as well as students of the nearby villages. It's absolute pride when we see our students behaving responsibly as they care to share their belongings with the lesser privileged. *Chitkarians* have always been encouraged to share their well-used belongings with the lesser privileged in society, including people from the villages, laborers staying on campus, inmates of Halfway Home, etc.

        The UNSDG emphasizes *leaving no one behind,* and that is the attitude the *Chitkarians* are encouraged to imbibe - *to take the lesser privileged along*! While

it contributes towards reducing poverty, it also helps in reducing inequality. Our students who volunteer to donate and to distribute, learn the noble art of sharing and caring.
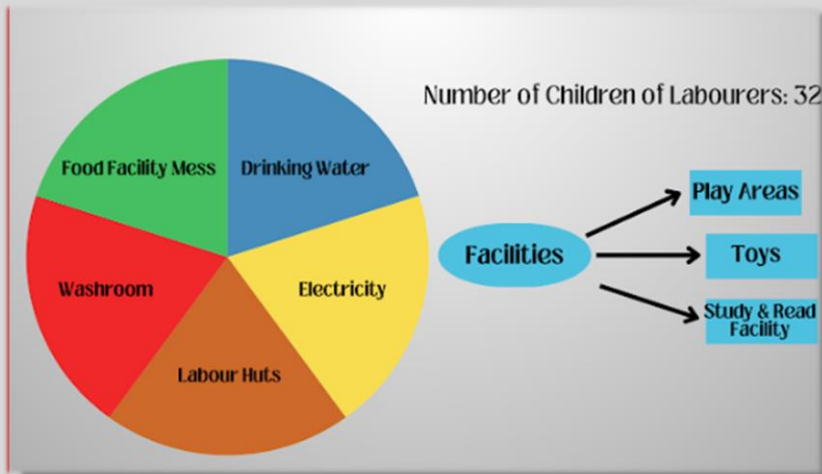

CARE FOR THE LABOUR FORCE

The labor force on campus is from far away states of the country and comes from less privileged circumstances. To keep them comfortable as they perform their roles, Chitkara

Number of Children of Labourers: 32

University makes sure they are provided with all basic amenities and facilities. This is ensured through the Office of Infrastructure. The children are also provided with facilities so that they enjoy their childhood as best as they can, despite the financial conditions and circumstances of their parents.

'*Care-to-Share' Bins* placed at all hostels provide an easy way for the students willing to share their belongings to reach out to the lesser privileged. They deposit their well-used belongings that could include books, clothes, toys, bags etc., The **Residential Services team** then hands over these material to the NSS volunteers for sharing with the lesser privileged children at our adopted villages through the NSS team.

NSS CARES FOR ADOPTED VILLAGES

Chitkara University has always led the way in giving to society, based on their needs. **NSS (National Service Scheme),** a unit on our campus, with a thousand and three hundred volunteers, which works in collaboration with the Government**,** plays a key role in the efforts towards caring for the five villages adopted by Chitkara University for more than 2 decades now. Be it washroom, LEDs, water coolers, PCs, furniture, winter clothing or toys, **NSS** volunteers have always been at the forefront to take care of the villagers, living up to the slogan "*Not Me But You".*

ZERO HUNGER

Jul 2023 – June 2024

Key Initiatives:

1. Publications: - 246

2. **Green Plate Initiative**: Chitkara University implemented an efficient way to handle leftover food. Despite all efforts to cook meals as per the strength of the students who would be present and would have meals, leftover food arises owing to some students skipping meals and some eating lesser than norma or any such reason. Chitkara University planned a program to distribute the leftover food to the labour on campus. They are economically backward. Leftover cooked food is distributed to labourers as part of the university's CSR initiative. These efforts reduce environmental impact while promoting sustainability in food resource management.

3. **Awareness on Organic Farming**: One of the drives, was organised at Yellow Point Farms, for our students our Sustainable Farm where we have more than a dozen sustainable ventures including organic farming, Miyawaki forest, mushroom production etc. where students participated in planting fruit species along with vegetables. The drive fostered organic farming practices and aligned with multiple SDGs including SDG 2, contributing to sustainable agricultural practices.

Other such drives included a demonstration on turmeric vertical farming at Kurukshetra. Vertical farming, which maximizes land use efficiency, was shown to produce higher crop yields, a training program on organic vegetable production in collaboration with Mi Lifestyle Pvt Ltd, promoting the use of NOP & NPOP- certified agricultural product, a consultancy to GRM Overseas Ltd., for setting up an Agri Research Centre in Panipat where field trials were conducted on new rice varieties, contributing to the promotion of food security and national health.

Publications – 246
Courses – 17
Student Activities – 21

More at:
https://sustainable.chitkara.edu.in/pdfs/sdg/SDG-2-Zero-Hunger.pdf

FOOD DISTRIBUTION

As a practice, the hostel mess provides food that is not consumed by the residents, for the hungry labor. For years now, though students are encouraged to not waste any food, there would always be a certain percentage of hostelers who do not turn up for dinner for logical/illogical reasons. Such food is distributed to the labor that stays within the campus. In this year the various messes of the hostels have contributed food to more than *1745 families of labor*. This food is not "wasted" but offered to the labor families turn wise. We proudly name this initiative the **"Green Plate Initiative"**!!

Chitkara School of Hospitality, in collaboration with the *Office of Infrastructure,* celebrates national celebrations like Independence Day, Republic Day or celebrations like Diwali, Holi etc., with the labor force that resides within campus, by offering very sumptuous and healthy meals with them. Truly a way to celebrate the days, making sure no one stays hungry on special days, an aim to *"leaving no one behind"!*
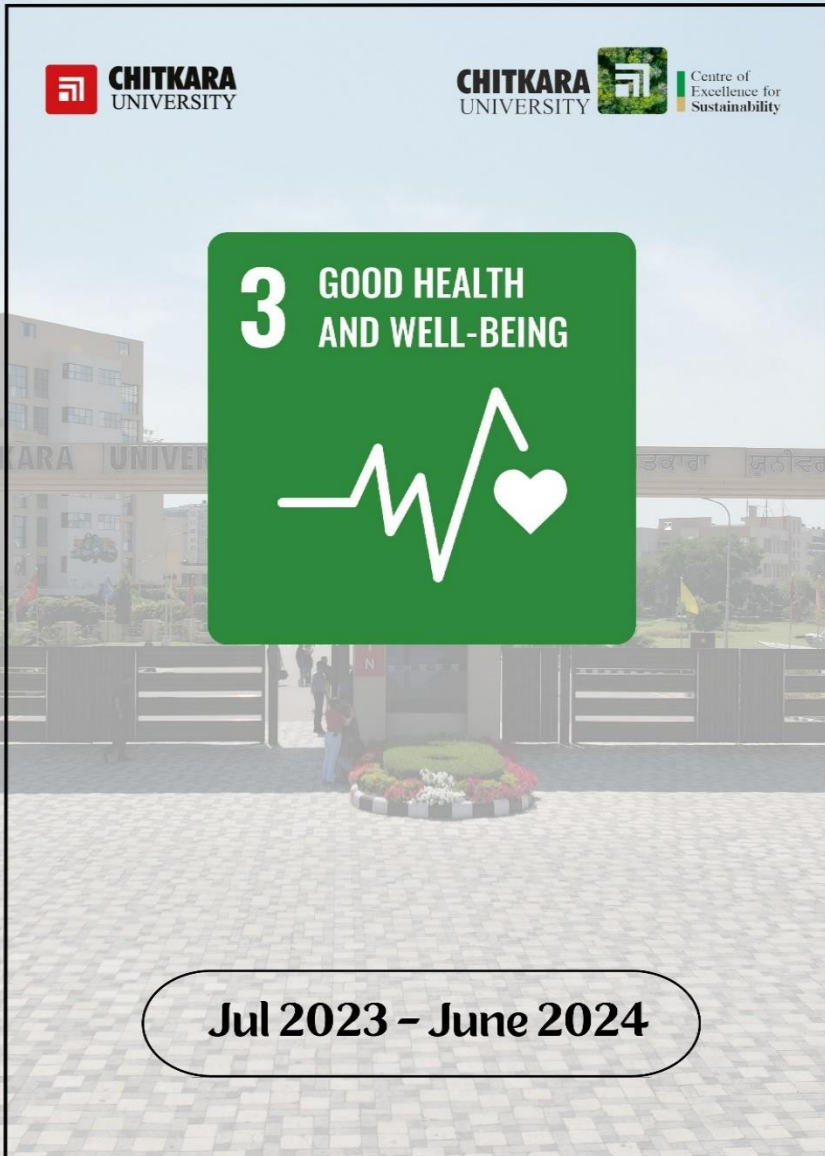
ORGANIC CULTIVATION

Land exclusively dedicated to growing organic fruits & vegetables, yes, that's at our *Yellow Point Farm* - a living lab for green ventures.   In total, about 15 different varieties of fruit species have been planted which include Aonla, Pomegranate, Red Apple Ber, Jamun, Mango, Litchi, Phalsa, Chikoo & Guava, etc. combat the problem of malnutrition and attain food security. For full utilization of land about 25 different vegetables were also planted as an intercrop. These vegetables included a cocktail of exotic & traditional vegetables.

Further initiatives include the Sustainable Mushroom Production unit at the Yellow Point Farms. At our unit we are procuring spawn run mushrooms from a reputed Horticulture University of Haryana. This ensures us the authenticity of the spawn or mushroom seed which would ensure quality produce too. Chitkara University has been providing intricacies on rice crop production technology at their Agri Research Centre at GRM Overseas which is one of the largest basmati rice processors & exporters in India.

Various field trials on new rice varieties are being laid down, contributing to social welfare and overall national health.

We offer agriculture consultancy services pan India, at an unparalleled rate, without burning a hole in the client's pocket. Through such consultancy we have been providing services to several progressive farmers as well as private companies, helping them with agribusiness, food processing infrastructure, and retail distribution projects worldwide across the agriculture sector. They aim to empower their clients to succeed in today's multifaceted and ever-changing markets by offering practical solutions, using modern tools and technologies, and providing continuous improvement leading to client satisfaction. They are working diligently to improve the economic status of the farmers and elevate India to the ranks of the world's developing countries.

CHITKARA UNIVERSITY

CHITKARA UNIVERSITY

CHITKARA UNIVERSITY | Centre of Excellence for Sustainability

3 GOOD HEALTH AND WELL-BEING

Jul 2023 – June 2024

Key Initiatives:

1**. Publications** - 555

2. **Awareness Sessions &Medical Check-up on Campus and In Society** – Awareness for the society and stakeholders of the campus are spread in continuous efforts by students of various medical fields on campus. This provides facility to the stakeholders and villagers and facilities for the staff and stakeholders.

3. **Nurturing Passion of Students** – The Office of Student Affairs offers many clubs and opportunities for students to nurture their passion which would keep their energy channelised towards positivity.

4. **Sports Facilities for Holistic Development** – Facilities of sports which include various indoor and outdoor activities are very well utilised by students and staff and these facilities are extended to the society also.

5. **Counselling Centre on Campus** – The counselling centre on campus helps the staff and students to maintain a healthy mind with free counselling and interactive sessions.

6. **Happiness Centre on Campus –** Spreading the message of happiness, this Centre takes initiatives to conduct courses on happiness as well as for sessions that keep the morale of the University high.

Publications – 555
Courses – 30
Student Activités – 218
Patents – 93 /Collaborations – 20

More at –
https://sustainable.chitkara.edu.in/pdfs/sdg/SDG-3-Final-Report.pdf

AWARENESS & HEALTH CHECKUP CAMPS

Health is wealth, and for this, nutritious food, mental wellbeing, regular medical checkups for physical health, sports facilities and regular action, opportunities and facilities where students can indulge in activities and pamper their passions, all play very important roles. For these, we have dedicated teams and departments promptly providing the required mentoring and attention to our stakeholders.

With more than *forty-three awareness programs and many health checkup camps* on campus as well as in the Society for children, women and the old, efforts are made to provide regular support for healthcare. Students play a major role in all these activities. As part of their activities, they offer medical support and awareness sessions to the villagers as well as the taskforce on campus. These include eye-checkup camps, general health check-up camps, and much more. Students visited old age homes as well as half-way homes to provide health check facilities. Our alliances with renowned institutions and healthcare organizations across the globe provide unparalleled opportunities for student and faculty exchanges. Through these programs, students gain international exposure and experience diverse healthcare systems, which helps broaden their perspectives and skills. Faculty exchange programs allow educators to share knowledge, teaching practices, and clinical expertise, fostering academic innovation.

The Creche at the campus is also a facility extended to the staff and students on campus where their young toddlers can be taken care of as they concentrate on their studies and work. The toddlers of the creche are also provided with regular health check-up by the students of healthcare.
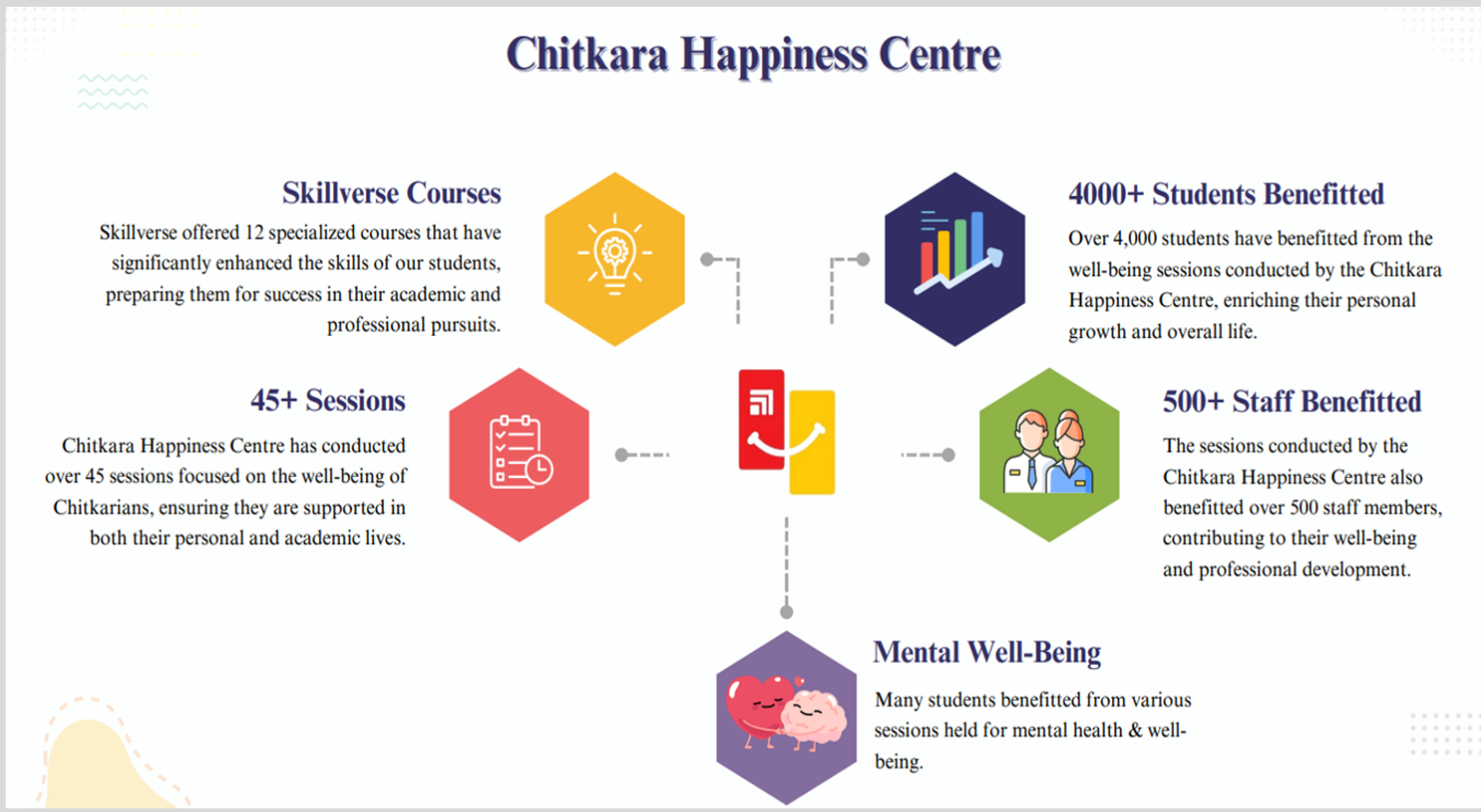
The happiness courses and sessions offered by the Happiness Centre for the faculty and staff, over and above the various courses offered for the students, helps keep the morale of the campus high!

CHITKARA HAPPINESS CENTRE

Chitkara University had always acknowledged the need of addressing the well-being and mental health of the students, and also appreciated the teachings of HH Dalai Lama, both of which led to the establishment of the HH Dalai Lama Centre for Happiness. Numerous activities are organised by this centre with an aim of spreading the message of happiness. While technology today has increased the access to information, pace of travel, and of work, it has sadly contributed towards the decreased strength of bonding between human relations. In a world filled with competition, jealousy, and envy, where the growing academic pressure could adversely affect a students' mental stature, spreading joy and happiness is a necessity. *Skillverse* is a series run by the Centre for Happiness, which offers a wide range of activities from dancing to courses on happiness, tips on money making, and sustainable lifestyle, to enable students to pursue their passion.

Chitkara Happiness Centre

Skillverse Courses
Skillverse offered 12 specialized courses that have significantly enhanced the skills of our students, preparing them for success in their academic and professional pursuits.

4000+ Students Benefitted
Over 4,000 students have benefitted from the well-being sessions conducted by the Chitkara Happiness Centre, enriching their personal growth and overall life.

45+ Sessions
Chitkara Happiness Centre has conducted over 45 sessions focused on the well-being of Chitkarians, ensuring they are supported in both their personal and academic lives.

500+ Staff Benefitted
The sessions conducted by the Chitkara Happiness Centre also benefitted over 500 staff members, contributing to their well-being and professional development.

Mental Well-Being
Many students benefitted from various sessions held for mental health & well-being.

NURTURING THE PASSION OF STUDENTS

The Office of Student Affairs (OSA) at Chitkara University, Punjab, is dedicated to enhancing the student experience by providing a platform for holistic development and personal growth.

Central to this mission is the Chitkara Cultural and Social Society (C2S2), which comprises various vibrant clubs that cater to the diverse interests of our students.

Whether it's exploring artistic talents with Club Reflection, capturing moments through Club Tasveer, or preserving cultural traditions with The Bhangra Regiment and The Lethal Giddha Squad, students find numerous ways to express themselves. Club Natraj and Natti celebrate classical and Himachali folk dances, while Club Dhwani provides a space for budding singers. Those passionate about theatre join Club NatSamrat, while aspiring writers and debaters thrive in Club Literayllis. For students interested in fashion and modeling, Club Panache offers a stage to shine, and Custody Club brings non-classical dance forms to life. By participating in these clubs, students follow their passions alongside their academic pursuits, promoting creativity, teamwork, and leadership skills. The OSA, through these clubs, has positively impacted over 4,500 students, contributing significantly to their overall growth, happiness, and holistic development.
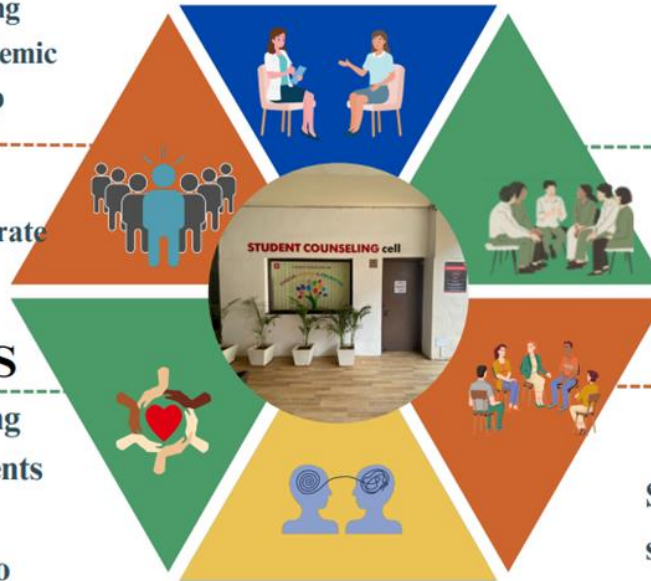
COUNSELLING CELL ON CAMPUS

1250+ INDIVIDUAL SESSIONS

Annually, approximately 250 individual counseling sessions are conducted, addressing issues such as anxiety, depression, and academic challenges. Each case includes 4-5 follow-up sessions, totaling around 1,250 sessions per year. Special attention is given to sensitive profiles, with dedicated follow-ups and separate indexing for comprehensive support.

19+ GROUP SESSIONS

19 plus group sessions were conducted, reaching approximately 2,500 students on topics like stress management, mindfulness, emotional regulation, self-awareness, resilience, and frustration tolerance. Interactive and inclusive approaches were implemented to foster a supportive community and enhance mental well- being.

AWARENESS PROGRAMS

Awareness programs on mental well-being were conducted for 5,500 freshman students across all departments. Additionally, collaboration with faculty and staff led to the development of mental health resources and workshops, targeting both faculty and students.

FACULTY & STAFF SESSIONS

Seven faculty sessions and four warden sessions were organized to upskill 85 attendees in supporting students effectively. Additionally, awareness events and campaigns were conducted to reduce stigma and encourage help-seeking behavior.

Chitkara University contributes to the emotional and mental health support of its students and faculty. We understand the challenges that come with academic pressures and personal growth. To support this, free counselling services are available to all students and faculty members. This cell provides a safe, confidential space to address personal issues, stress, anxiety, academic pressures, and other mental health concerns.

SPORTS FOR HOLISTIC DEVELOPMENT

Chitkara University recognizes the importance of sports in fostering holistic development and promoting a healthy lifestyle. The university boasts a wide array of sports facilities, including well-maintained courts, fields, and indoor arenas for sports such as basketball, tennis, badminton, cricket, and football. These facilities not only cater to recreational activities but also support professional training for students who aspire to excel in competitive sports.

The university encourages students to engage in sports to enhance physical fitness, teamwork, and leadership skills. Regular tournaments, fitness programs, and sports clubs are integral parts of the campus life, ensuring that students balance academics with physical activity. This commitment to sports reflects Chitkara University's broader mission of nurturing well-rounded individuals ready to face the challenges of the modern world.

Chitkara University, Punjab *has extended its state-of-the-art sports facilities to the nearby adopted villages* (especially children & Youth), fostering community engagement and promoting health and wellness among the local population. This initiative allows residents from the surrounding villages to access and use university sports amenities, including outdoor fields, indoor courts, and fitness centers, under a community outreach program designed to encourage physical activity and sports participation.

The Noble Act of Blood Donation

Chitkara University, through its NSS unit has always organised blood donation camps. These events see enthusiastic participation from students, faculty, and staff members who donate blood to aid those in need, ultimately helping to save lives. Despite the fear brought by the COVID-19 pandemic, we have been encouraging the Chitkarians to come forward and donate their blood. The camps are held in partnership with local hospitals, ensuring that the donated blood reaches those who require it the most. This initiative underscores Chitkara University's unwavering commitment to social responsibility and community service, highlighting its dedication to making a positive impact on society.
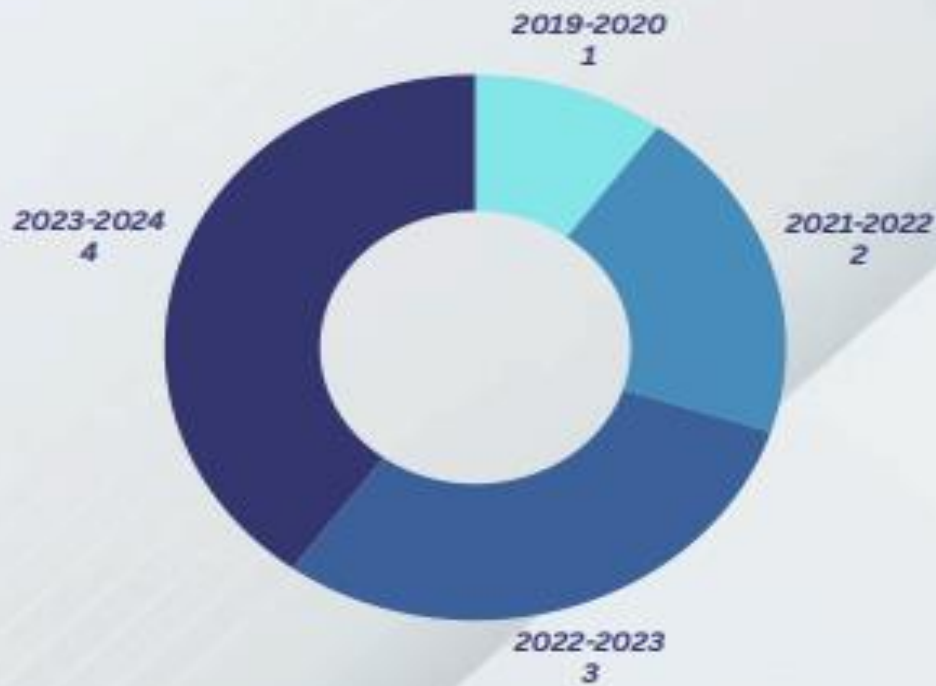

Confederation of Indian Industry (CII) Chandigarh organized a Blood Donation Camp in which Chitkara University participated. Staff members from the Office of Administration came forward and donated blood. The event featured a thorough registration and medical checkup process to ensure donor safety. High-quality medical equipment and qualified medical staff from local hospitals facilitated the donation smoothly. Such camps highlight the warmth of staff and students in contributing towards the noble cause of saving lives by donating blood, underscoring Chitkara University's commitment to social responsibility and public health.

The following graphs represent the Blood Donation Camps & Blood Donors.

BLOOD DONATION CAMPS
2019-2024

2019-2020
1

2023-2024
4

2021-2022
2

2022-2023
3

➤ For 2023-2024
By Campus: 03
CII Participation: 01

BLOOD DONORS
2019-2024

2023-2024
659

2019-2020
718

2021-2022
145

2022-2023
687

➤ For 2023-2024
NSS: 649
CII: 10

CHITKARA UNIVERSITY

CHITKARA UNIVERSITY | Centre of Excellence for Sustainability

4 QUALITY EDUCATION

Jul 2023 – June 2024
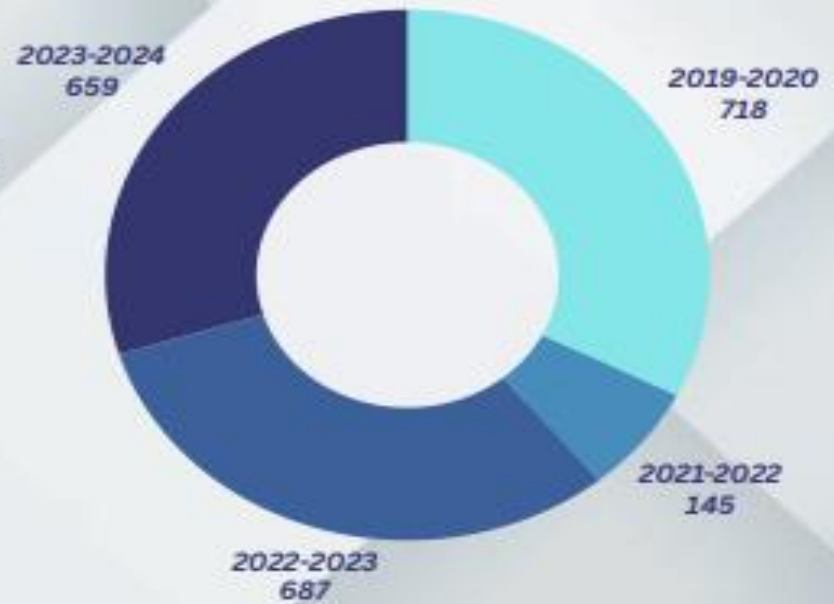
Key Initiatives:

1. **Publications:** 8

2. **Curriculum** – There has been an increased contribution towards including subjects in all streams that align with Sustainability. A total of 477 subjects are included in the syllabus of various schools and colleges for various subjects of sustainability. https://sustainable.chitkara.edu.in/pdfs/Subjects-Mapped-to-SDGs.pdf

3. **Research** – We are a leading research institution dedicated to addressing global challenges and contributing to the achievement of the Sustainable Development Goals (SDGs) outlined by the United Nations. We believe that research is a powerful tool for driving positive change, and we encourage our faculty and students to pursue innovative solutions that promote a more sustainable future. This research repository serves as a central hub for all research articles produced by Chitkara University faculty and scholars. https://sustainable.chitkara.edu.in/academic-contribution/research-papers/

4. **Patents** - The 2023-24 period has seen several patents filed across diverse industries, from healthcare to environmental technology. https://sustainable.chitkara.edu.in/academic-contribution/patents-for-sustainable-future/

5. **Lifelong Learning Measures** - Lifelong learning is the continuous pursuit of knowledge, skill and personal development throughout one's life. It ensures inclusive, equitable and quality education for all. At Chitkara University, by prioritizing lifelong learning, we aim to bridge skills gaps and unemployment, foster innovation and entrepreneurship, promote social cohesion and equality and support economic growth and development. https://sustainable.chitkara.edu.in/academic-contribution/lifelong-learning-measures/

Publications – 8
Courses – 275 / Student Activities – 607
Patents – 51 /Collaborations – 80

More at –
https://sustainable.chitkara.edu.in/pdfs/sdg/SDG-4-Quality-Education.pdf

CHITKARA UNIVERSITY'S SDG-ALIGNED CURRICULUM:

A Holistic Approach to Global Challenges Chitkara University's commitment to the United Nations' Sustainable Development Goals (SDGs) is evident in its integration of these goals into the core syllabus across various disciplines. This approach equips students with the knowledge and skills to tackle some of the world's most pressing issues, ranging from environmental sustainability to social equity and innovation.

Key SDGs Mapped in the Curriculum: https://sustainable.chitkara.edu.in/pdfs/Subjects-Mapped-to-SDGs.pdf

1. SDG 4 (Quality Education): -The most significant focus in Chitkara University's curriculum lies in SDG 4, with the largest number of subjects dedicated to ensuring inclusive and equitable quality education. This reflects the university's dedication to providing access to quality education for all, fostering a generation of students who are well-prepared to solve complex global problems. Emphasis on education further strengthens the role of teachers, researchers, and educational professionals in shaping a sustainable future.

2. SDG 9: Industry, Innovation, and Infrastructure: - Another substantial portion of the syllabus is aligned with SDG 9, which underscores the importance of building resilient infrastructure, promoting inclusive industrialization, and fostering innovation. The subjects mapped to this goal encourage students to engage in technological advancements, entrepreneurship, and the development of sustainable industrial solutions, all of which are vital for economic growth and environmental sustainability.

3. SDG 3: Good Health and Well-being: - A significant number of subjects also target SDG 3, which is focused on ensuring healthy lives and promoting well-being for all at all ages. Chitkara University has integrated health sciences and wellness programs into its syllabus, promoting research and education that contribute to advancements in healthcare systems and well-being initiatives. This prepares students for careers in healthcare, pharmaceuticals, and related industries, where they can make impactful contributions to public health.

4. SDG 8: Decent Work and Economic Growth: - Courses related to SDG 8 highlight Chitkara's commitment to fostering inclusive and sustainable economic growth. These subjects prepare students for a rapidly evolving workforce, promoting

decent job creation, entrepreneurship, and financial stability. By focusing on equitable employment opportunities, the university addresses the broader goal of sustainable economic development.

5. SDG 11: Sustainable Cities and Communities: - Subjects aligned with SDG 11 focus on the creation of sustainable cities and communities. These courses encourage students to engage in urban planning, architecture, and environmental science, emphasizing the need for resilient infrastructure, affordable housing, and sustainable urbanization. This focus on sustainable communities prepares students to contribute to the design and development of eco-friendly and inclusive urban spaces.

❖ Diverse SDG Coverage Across Disciplines

While SDG 4 and SDG 9 receive significant attention, Chitkara University's curriculum covers a broad spectrum of SDGs, ensuring that students across all faculties are exposed to the goals relevant to their field of study. Other SDGs represented in the syllabus include:

• SDG 5: Gender Equality – Promoting gender equality and empowering women through subjects that explore social justice, diversity, and equality in the workforce.

• SDG 6: Clean Water and Sanitation – Courses focused on water management, environmental conservation, and sustainable resource use.

• SDG 7: Affordable and Clean Energy – Subjects related to renewable energy technologies, sustainability in energy consumption, and innovation in the energy sector.

• SDG 13: Climate Action – Educating students on climate change mitigation, adaptation strategies, and the importance of environmental stewardship.

NUMBER OF SUBJECTS MAPPED WITH DIFFERENT SDG'S

NUMBER OF SUBJECTS MAPPED WITH DIFFERENT SDG'S
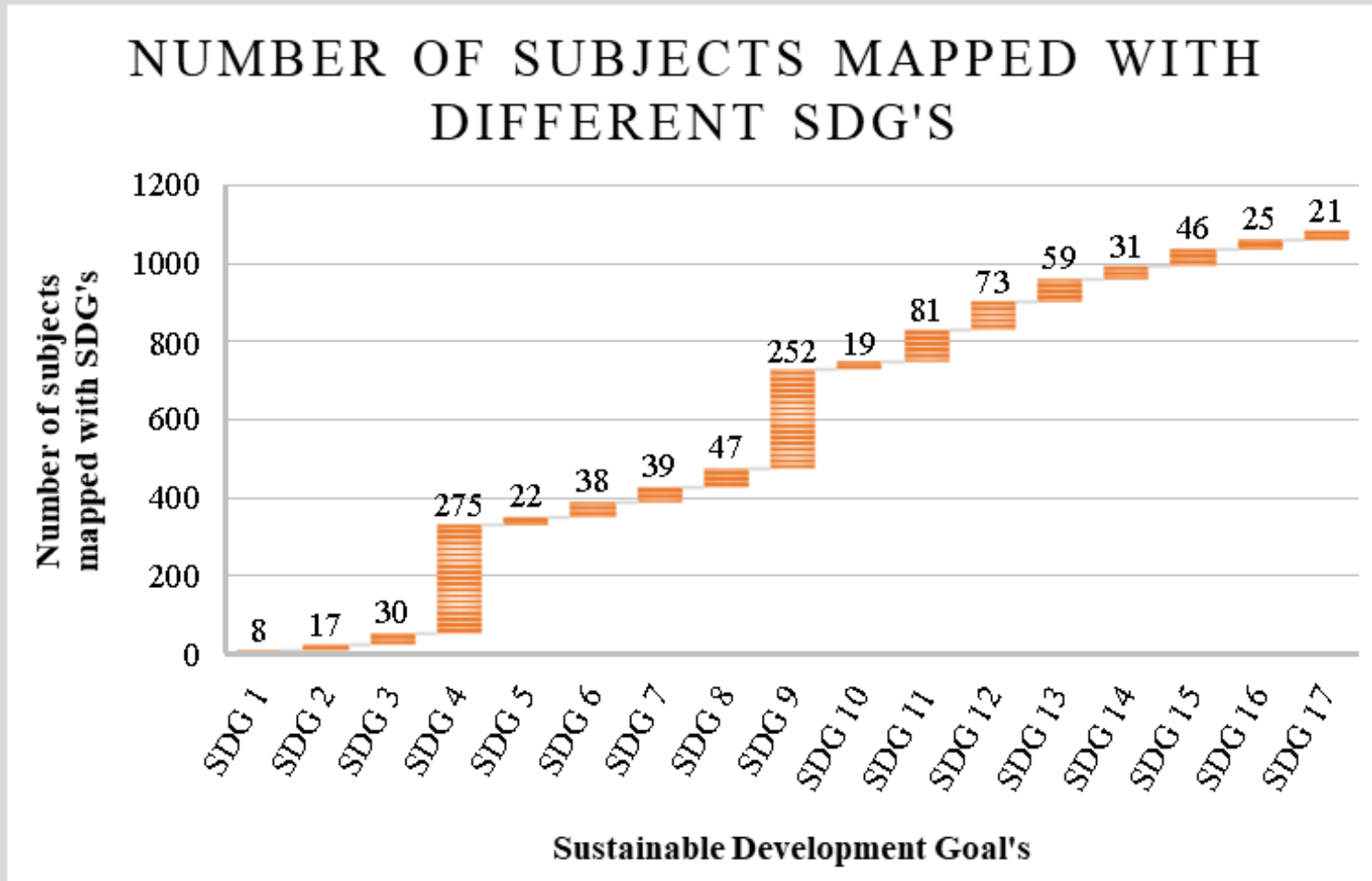
Innovative Learning for Sustainable Development

Chitkara University's integration of SDGs into the curriculum reflects its forward-thinking approach to higher education. By aligning subjects with global sustainability goals, the university is ensuring that students are not only receiving a well-rounded education but are also actively contributing to the global conversation on sustainability.

Through project-based learning, research opportunities, and industry collaborations, students are given the chance to apply theoretical knowledge to real-world challenges, ensuring that their academic experiences have tangible societal impacts.

PATENT PORTFOLIO: INNOVATIVE SOLUTIONS FOR A BETTER FUTURE

Innovation is deeply embedded in Chitkara University's ethos. The university has been actively filing patents that not only demonstrate the ingenuity of its faculty and students but also address some of the world's most pressing challenges. The 2023-24 period has seen several patents filed across diverse industries, from healthcare to environmental technology.

Notable Patents Filed:

1. **Multi-Purpose Walker with Foldable Seats and Dual Braking System**: - This innovative device offers a versatile solution for elderly and disabled individuals, providing both mobility and seating options. It addresses SDG 3 (Good Health and Well-being) by improving the quality of life for the elderly and disabled, and SDG 9 (Industry, Innovation, and Infrastructure) by contributing to innovative healthcare technologies.

2. **Water Cooler to Prevent Wastage of Water:** - Aimed at addressing water conservation, this patent focuses on an innovative cooling system that prevents unnecessary water wastage, contributing to SDG 6 (Clean Water and Sanitation) and SDG 13 (Climate Action). Such patents exemplify the university's commitment to sustainability and environmental responsibility.

3. **Socket Slider**: - This patent introduces a sliding mechanism to improve the safety and functionality of electrical sockets, addressing SDG 9 (Industry, Innovation, and Infrastructure) and SDG 11 (Sustainable Cities and Communities) by enhancing infrastructure safety and energy efficiency in homes and businesses.

4. **Portable Mobile Holder Clamp on Adapter:** - An innovative solution for mobile users, this portable clamp addresses user comfort and device safety. It further contributes to SDG 9 (Industry, Innovation, and Infrastructure) by promoting accessibility and usability of technology in daily life.

Collaborative Research and Development: Chitkara University encourages interdisciplinary collaborations and works closely with industry leaders, research institutions, and government bodies to enhance the commercialization of patented technologies.

The university actively promotes innovation through various incubation centers and research initiatives, providing platforms for students and faculty to translate ideas into tangible solutions.

Global Impact: With a robust portfolio of patents, Chitkara University is not only making strides in national research but also contributing globally. By offering practical and implementable innovations, the university is positioning itself as a key player in the international research landscape.
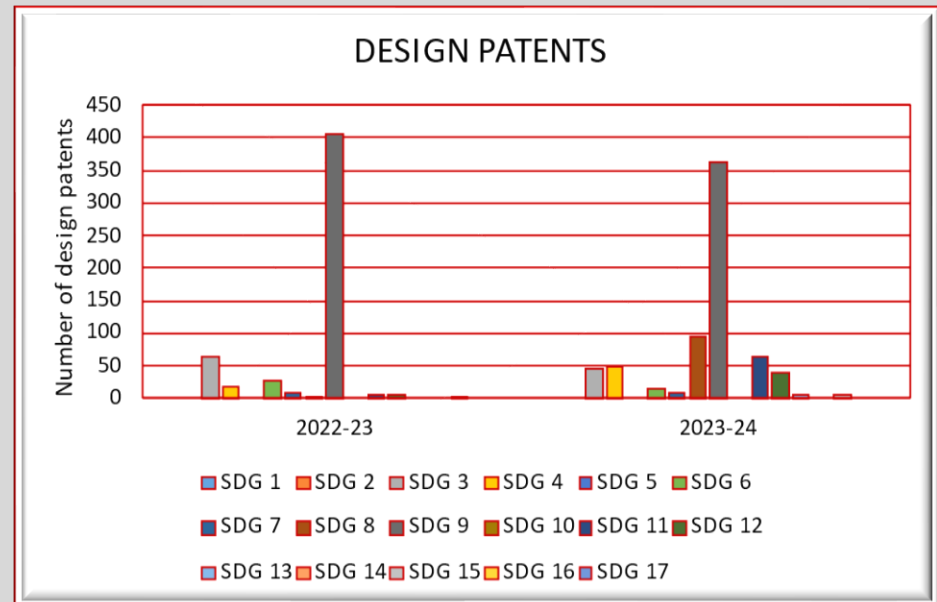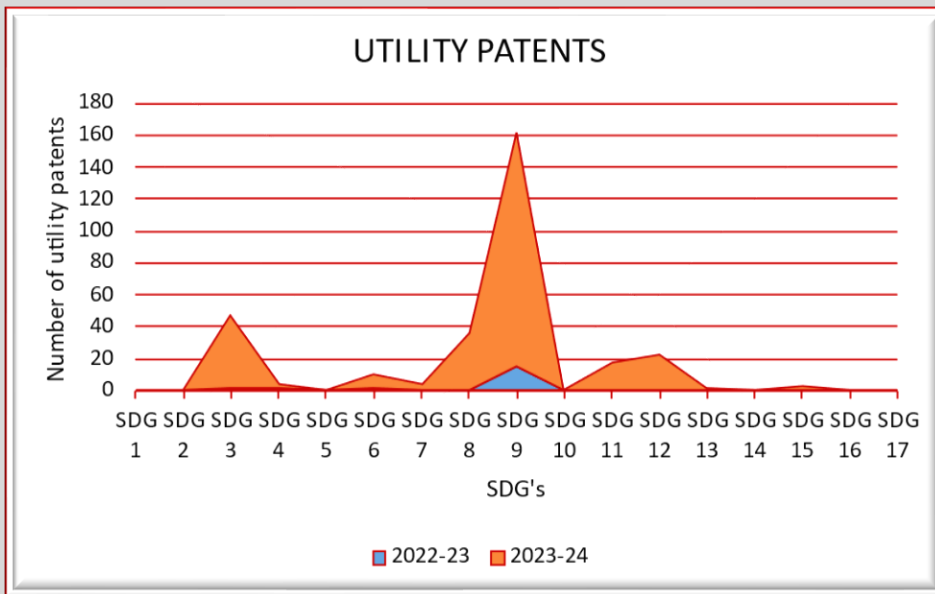
RESEARCH

We are a leading research institution dedicated to addressing global challenges and contributing to the achievement of the Sustainable Development Goals (SDGs) outlined by the United Nations. We believe that research is a powerful tool for driving positive change, and we encourage our faculty and students to pursue innovative solutions that promote a more sustainable future. This research repository serves as a central hub for all research articles produced by Chitkara University faculty and scholars.

Chitkara University stands at the forefront of academic research, producing a significant volume of high-quality research papers that address key challenges across a variety of disciplines. The university's strong focus on research and development is complemented by a dynamic faculty and an environment that encourages innovative thinking, cross-disciplinary collaboration, and a hands-on approach to real-world problems. The 2023-2024 academic year saw a tremendous increase in research output, with over 555 research publications aligned with sustainable development goals.

2023-24

No. of publications under 17 SDG's

Student-Driven Research Initiatives: A unique aspect of Chitkara University's research ecosystem is the involvement of students in significant research endeavours. Undergraduate and postgraduate students are encouraged to participate in research projects early in their academic careers, contributing to peer-reviewed papers and presenting at international conferences. This focus on student-driven research prepares them for successful careers in academia, industry, and entrepreneurship.
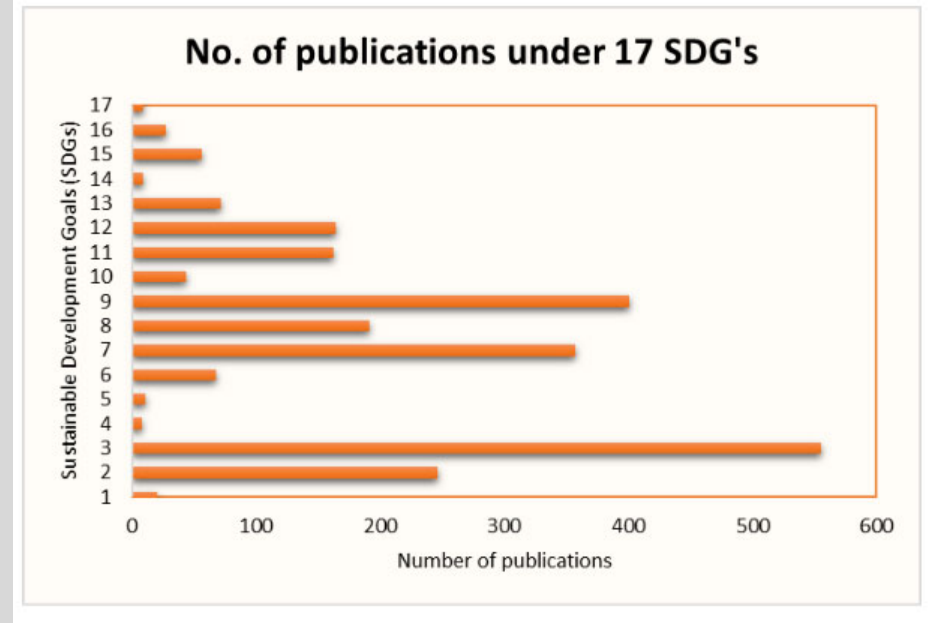
FEW STARTUPs OF OUR CAMPUS CONTRIBUTING TO SDG 4

To improve training for corporate clients, **Upper-Limit Tech Solutions**, one of our student startups, is developing applications by leveraging machine learning and artificial intelligence. These applications utilise machine learning to accelerate learning on factors like attention to content, understanding of content, facial expressions and scoring using artificial intelligence. After assessing the performance, the machine will frame assignments and questions using automation. Concepts must be sufficiently clear to be solved, making evaluation more useful. We are developing these applications.

KalaCoach is a dynamic platform dedicated to supporting Indian artisans and preserving the country's rich cultural heritage of arts and crafts. By combining traditional craftsmanship with the power of emerging technologies, KalaCoach curates and promotes skilled artists, providing them with a global platform to showcase their talent. This initiative not only honors the age-old techniques passed down through generations but also ensures these art forms thrive in the digital age.

Eternstack is an all-in-one education management system in a very lightweight and efficient platform. EternStack offers advanced software solutions designed for developers and students, featuring intuitive interfaces, budget-friendly pricing, ongoing improvements, and a vibrant community for collaboration and support.

6DOF Solutions Pvt. Ltd. - To augment the current abilities of individuals and teams in an effort to enhance what each of us is truly capable of. They strive to unleash the power of immersive technologies to allow people to move, think, see, hear, and perform tasks with greater understanding, speed, and precision. In turn, this enables a deeper connection with ideas, processes and concepts which ensures a deeper understanding and retention of target material and content, and an enhanced ability to put this increased knowledge to use.

ESCOFFIER block

CHITKARA UNIVERSITY

CHITKARA UNIVERSITY — Centre of Excellence for Sustainability

5 GENDER EQUALITY

SCHOOL OF HOSPITALITY

Jul 2023 – June 2024

Key Initiatives:

1. **Publications:** 11

2. **Vocational Training Centre for Women of Society** – The Silai Centre -a vocational centre that imparts skill on stitching to girls of the adopted villages, is a venture that helps girls to become financially independent that gives them and their families better living conditions.

3. **Sports Activities for Women / Girls** – Various sports activities have been conducted for the girl students on campus giving them a chance to stay physically fit, boost their confidence and provide them the confidence that they can perform as good as their male counterparts.

4. **Celebrating Womens' Day**

5. **Internal Complaints Cell** – The complaints cell on campus provides training on PoSH and the accepted behaviour norms on campus for staff and students with an aim to provide a safe and secure working and studying space for the staff and students.

6. **Sessions / Awareness for the Women Task Force on Campus** – For the taskforce that includes women, all out efforts are made to encourage them to enhance their skills and improve their proficiency through various training sessions on campus and to be aware of the behaviour which should be accepted and objected to from male counterparts.

Publications – 11
Courses – 22
Student Activities – 70
Collaborations – 33

More at –
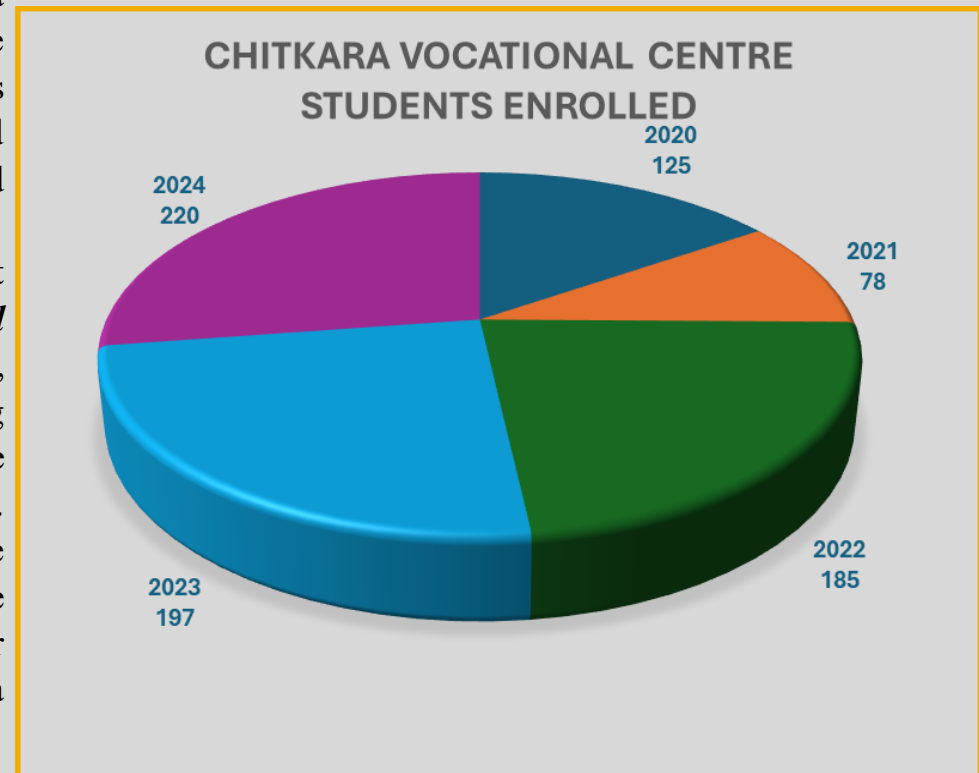https://sustainable.chitkara.edu.in/pdfs/sdg/SDG-5-Final-Report.pdf

SILAI CENTRE

A vocational venture for the women, by women, sponsored by Chitkara University!!

If you educate a man, you educate an individual. But if you educate a woman, you educate a nation. *African Proverb*

A vocational training center for the women of the village, SILAI CENTRE, is a *Vocational Centre*, fully managed by the *NSS Unit of Chitkara University*, where girls from *Thuha* Village, one of the five adopted villages of the university, are trained on skills of stitching. The syllabus and the course work are designed by Chitkara University, the material for the classes and the resource person are all provided by Chitkara University. The girls who enroll themselves can acquire the required skills of stitching, at *absolutely no cost*. This helps girls to attain skills at no cost and become confident and employable, thus becoming financially independent and taking a strong stand to support their families.   Yes, when 220 girls learn at the Centre, they gain a skill, at absolutely no cost, and this *positively helps 220 families, and hence on an average 880 lives….that is the impact* !! Further, the university provides them the work opportunity of creating gifts of "phulkari" , a traditional art work of the colorful state of Punjab, which the university proudly presents to its guests. This provides the girls with employment opportunities and the university with quality gifts.   An opportunity where the girls become independent, grow economically, can help their families out of poverty and hence keep hunger at bay. It's a total win-win situation catering to SDGs 5, 8, 1 and 2!!!

CHITKARA VOCATIONAL CENTRE STUDENTS ENROLLED

- 2020: 125
- 2021: 78
- 2022: 185
- 2023: 197
- 2024: 220

"Equal rights, equal might – women's equality fuels society's flight." Various sports events as well as awareness sessions and sensitisation sessions are held on campus to spread the need to inculcate a feeling of equality for women.

SPORTS - The Mechstein Club of the Department of Mechanical Engineering, in collaboration with the Chitkara University Sports Board, organized a dynamic basketball event, at the Chitkara University Punjab Basketball Court. The event was conducted under the themes of Sustainable Development Goals (SDGs) 3, 5, and 10, emphasizing good health and well-being, gender equality, and reduced inequalities. The tournament witnessed an overwhelming participation of over 450 students from across the university.

AWARNESS ACTIVITIES - Street plays and skits are also used at hospitals and villages as a mode of spreading awareness to society about the important role that girls and women play and the need to provide them the wings to pursue their dreams. These are done by students across the campus, especially students of NSS as well as students of the School of Health Sciences and department of Nursing at villages, hospitals and health centers.

The campus is equipped with a cell that takes care of the concerns of any gender-based harassment. While all staff and employees as well as students are made aware of the behaviour required to be displayed, the **(ICC) Internal Complaints Cell** provides all required guidance and support to the staff and students. Internal Complaints Committee (ICC) organizes various sessions on "Posh Awareness Training the What, Why and How" for the New staff and students in the Chitkara Exploration Program.

Objectives of ICC

Core Objectives of Internal Committee

Objectives of Internal Committee

01 Formulate an anti-sexual harassment policy

02 Provide a mechanism for the prevention and redressal of sexual harassment cases

03 Ensure that the policy is implemented completely

04 Help provide an environment that is free from gender based discrimination

05 Create a secure physical and social environment to deter acts of sexual harassment

06 Raise awareness about sexual harassment and its various forms

SDG 5 also known as the Sustainable Development Goal 5 focuses on gender equality and empowering women and girls. It aims to eliminate discrimination and violence against women promote equal opportunities for leadership and decision-making and ensure access to sexual and reproductive health services. Posh awareness on the other hand refers to raising awareness about the importance of hygiene and sanitation practices especially for women and girls in developing countries. By promoting gender equality and posh awareness we strive to create a more inclusive and sustainable world for everyone on campus and in society.

When ***women have equal access to education healthcare and resources***, they are more likely to have healthy pregnancies and give birth to healthy babies. By promoting gender equality and improving maternal health services we can reduce the number of preventable deaths among mothers and newborns. It is crucial to prioritize the well-being of women and newborns to ensure a healthier and more sustainable future for all. Hence many health awareness camps are held for the women of the society on campus as was done by Department of Nursing in March 2024.

Almost 50% of the workforce is women and they work hard, with dedication for a living. We ensure that the campus where they give in their best should give them the best of facilities and a safe environment. With this motive the campus ensures every part of the campus is covered with CCTV surveillance. The women are made aware of all the avenues through which they can approach the authorities for help, in case any situation arises. ***Womens' day Celebrations*** on campus is done every year to not only emphasize on the important role she plays but to also encourage the male counterparts to appreciate the role. This year the event focused on empowering women by highlighting their experiences, challenges, and achievements in the workplace, while also providing education on optimal oral hygiene. Key outcomes included raising awareness about gender discrimination, educating attendees on women's rights, and encouraging actions towards achieving gender-sensitive policies and practices.

CHITKARA UNIVERSITY

CHITKARA UNIVERSITY | Centre of Excellence for Sustainability

6 CLEAN WATER AND SANITATION

LE CORBUS

Jul 2023 – June 2024

Key Initiatives:

1. **Publications:** 68

2. **Water Saving Techniques Implemented** – The campus has introduced many more techniques to save water, including a greater number of low flow plumbing fixtures, more rainwater recharging pits, more sprinklers, more drip irrigation etc.

3. **Encouraging stakeholders to Not Waste Water** – Extra efforts were made on campus to reduce the water wastage on campus as well as to spread awareness amongst students and staff to not waste water. This included posters and sessions on the need to save water.

4. **Urgent Action for Water leakage** – The Maintenance department of the campus ensures that topmost priority is provided to any complaints on water wastage.

5. **Awareness to Villagers & Taskforce** - Sessions were held for villagers and the taskforce on the need for using clean water and how diseases can spread, and on why it is necessary to stop wastage of water.

Publications – 68
Courses – 38
Student Activities – 21
Collaborations – 1
Patents 24

More at -
https://sustainable.chitkara.edu.in/pdfs/sdg/SDG-6-.pdf

EFFORTS FOR PRUDENT UTILISATION OF WATER

Water provided on campus is absolutely free, tested for quality, and available 24*7*365; but we spread awareness that this resource is scarce and hence must be used prudently. Notices are displayed at all water stations and washrooms to remind users not to waste water. Complaints of water leakage are given emergency status by the Maintenance Department to arrest every possibility of water leakage.

90% of Used Water is treated	100% of Treated Water is used •Horticulture •Double Plumbing	Sprinklers are used, increased 5 units this year	Drip Irrigation increased by 25 units
Karnal Technology-additional land included	Rainwater Recharging pits on campus – Added 3 more	Spreading awareness to villagers and taskforce	

WATER CONSCIOUS OPERATIONS

The treated water is used for horticulture as well as for double plumbing in various buildings. This helps reduce the usage of freshwater and this treated water further gets treated in the STPs as it is used.

RECYCLING WATER – TREATMENTS PLANTS – The University treats used water in its Sewage Treatment Plant based on the MBBR technology to treat the wastewater. 90% of the water used is treated and reused so that we can reduce consumption of freshwater.

USAGE OF TREATED WATER: More than 90% of the water used on campus in treated in the various STPs of the campus. Water used for horticulture is mostly treated water, thus reducing the usage of freshwater for plantation.

ADDITIONAL RAINWATER HARVESTING PITS

Chitkara University, Punjab takes Rainwater conservation as its basic Social Responsibility. While the university has 16 RWH pits, open grass pavers are also installed in the university to enable the rainwater to seep through the soil. Chitkara University separate Recharging pits for the Separate Roof top catchment areas of the building (Hostels, auditorium, Academic blocks) to recharge more run off. In this year we added 3 Rainwater recharging pits, and more recharging pits are proposed in the next years.


MORE DRIP IRRIGATION In this year we have added 25 more drip irrigation points in our gardens and 5 more sprinklers. All these have been done as an effort to reduce water usage and ensure effective usage of water.

TAPPING WATER FROM AC OUTLETS- In this year we have tapped water from 80 Air conditioners to avoid any wastage of water from AC outlets. The water so tapped is used for irrigation. Other measures adopted in the year include additional low flow faucets and censor based plumbing fixtures in the newly constructed green building.

There have been about a dozen activities to encourage students to understand the need to save water. There were
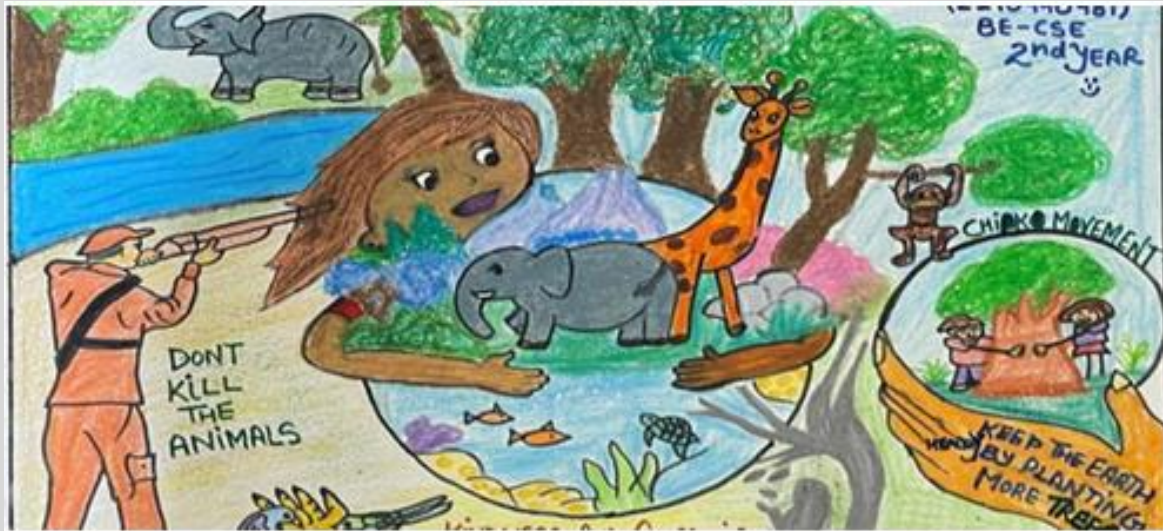
competitions and other activities like poster making, elocutions and debates on the need for water saving. Further, there were street plays also organised to spread the message. On the link provided below is one of the patents by our faculty for clean water

 https://newgeniedc.chitkara.edu.in/project/swach-neer/

CHITKARA
UNIVERSITY

7 AFFORDABLE AND CLEAN ENERGY

Jul 2023 – June 2024

Key Initiatives:

1. **Publications**: 357

2**. Initiatives for solar energy tapping and creation of renewable and clean energy** – Various initiative on campus and in adopted villages for tapping solar energy, reducing fossil fuel and using clean and renewable energy.

Solar panels have been provided for one of our villages also.

3. **Initiatives of using energy saving appliances on campus**.

4. **Projects** – Various student projects this year have been encouraged based on using clean and renewable energy.

5. **Public Transportation and Carpooling** – Faculty provided free public transport thus reducing the carbon footprint tremendously. More than 800 faculty in this year availed free public transport facility of campus thus reducing carbon emissions. Further, carpooling was insisted upon for faculty who used own vehicle to commute to campus.

Publications – 357
Courses – 39
Student Activities – 13
Collaborations – 1
Patents -13

More at –
https://sustainable.chitkara.edu.in/pdfs/sdg/SDG-7-Affordable-Clean-Energy.pdf

ENERGY SAVING MEASURES AT CHITKARA UNIVERSITY		
SOLAR PANELS	Installed solar panels with capacity of 850 KW.	Energy saving = 29%
LED LIGHTS	Replaced incandescent lights with more energy efficient LED lights.	Energy Saving = 50%
BLDC CEIELING FANS	Replaced commercial ceiling fans with the Brushless DC ceiling fans.	Energy Saving = 36%
VRF AIR CONDITIONING	Replaced the duct able air conditioners with variable refrigerant flow.	Energy Saving = 28%
BLDC EXHAUST FANS	Replaced commercial exhaust fans with the Brushless DC exhaust fans.	Energy Saving = 72%
HEAT PUMPS	Replaced water heater tanks with the heat pumps.	Energy Saving = 81%
Automatic Sensors have been installed on street lighting system, submersible pumps, motors, fountains etc.		

ADDING TO OUR SOLAR ENERGY TAPPING

With pride we state that, on completion of installing Solar Plant for 850 KwP, we initiated process to add another 150 KwP to our Solar Power Plant, adding to our sustainability practices on clean and renewable energy. Solar panels were provided for one of the adopted villages also.

SUSTAINABLE COMMUTING

Chitkara University is deeply committed to promoting sustainability in every aspect of campus life, and one of the key pillars of this commitment is sustainable commuting. As part of our broader environmental goals, we have implemented a range of initiatives that encourage eco-friendly transportation, reduce carbon emissions, and contribute to a cleaner, healthier campus. This year *more than 800 faculty were provided with free public transportation service*, thus reducing the carbon emission of 800 vehicles and providing them a stress-free commute to office and back.

As part of our push for green mobility, Chitkara University has introduced *Electric Golf Carts and EV Mini Tempos* as eco-friendly transportation options within the campus. These electric vehicles provide an efficient and zero-emission way for students, staff, and visitors to move around the campus, particularly when traveling between buildings or facilities that are far apart.

Carpooling is another key element of Chitkara University's sustainable commuting program. To promote the concept of sharing rides, the university encourages both students and staff to participate in carpooling initiatives, which help reduce the number of vehicles on the road, ease traffic congestion, and cut down on pollution. The campus community has embraced this concept, forming informal carpool networks that not only make commuting more cost-effective but also foster social interaction and a sense of shared responsibility for the environment.

SOLAR LOUNGES

The university grounds are home to several innovative features, including the Solar Lounge—a testament to Chitkara's forward-thinking approach to energy use. This Solar Lounge is an outdoor relaxation, is an addition of this year, providing space equipped with solar panels that power mobile device charging stations and other utilities. This eco-friendly initiative provides students with a space to unwind while actively promoting the use of renewable energy. With sustainable seating and shaded areas, the lounge encourages students to engage with nature, enjoy the open spaces, and become aware of the potential of solar power.

Scattered around the campus are several small, comfortable solar lounges designed with sustainability and student well-being in mind, created by repurposing old tables. These lounges are equipped with eco-friendly furniture, solar-powered amenities, and rainwater harvesting systems. These smaller green spaces provide students with opportunities to engage with nature daily, promoting both ecological awareness and physical well-being.

Students participated in various projects that propagates usage of battery and solar power for vehicles.

RETROFITTED E-BIKE

A group of students from the DICE at Chitkara University, Rajpura, Punjab, successfully completed the Retrofitted E-Bike project under the guidance of Dr. Rajneesh Talwar. Funded by a grant from NewGen IEDC. The conversion process involved removing the petrol engine, installing an electric motor, battery, and controller, and introducing modern functionalities. The modified bike, which boasts a top speed of 75 km/h, a range of 120 km on a single charge, reverse gear, 3-speed mode, and remote ignition, highlights the potential of electric bikes as sustainable transportation and is now ready for use at Chitkara University.

E-CYCLE

The "E-Cycle" project focuses on creating a cost-effective, lightweight, and user-friendly electric bicycle powered by a BLDC motor and lithium battery. Key features include quick charging, GPS tracking, and the ability to pedal manually if the battery runs out. The electric bike provides an extended range, ease of use on uneven terrain, and requires no license or taxes. This eco-friendly transportation solution supports sustainable practices and offers a practical, modern alternative for daily commuting.

Another feather in our cap is the efforts of the students to create projects with scrap material from the junk yard, and provide facilities for the physically challenged, with a battery-operated tricycle.

WHEEL CHAIR CUM SOLAR E-TRICYCLE

The "Wheelchair Cum Solar E-Tricycle," developed by the Department of Interdisciplinary Courses in Engineering (DICE) at Chitkara University, addresses the mobility challenges faced by individuals with disabilities. This innovative project repurposes scrap materials and harnesses solar power, offering a sustainable and eco-friendly alternative for wheelchair mobility. The solar-powered roof not only provides an environmentally friendly power source but also serves as a protective shelter for the rider. By reducing waste and utilizing renewable energy, the tricycle exemplifies the potential of sustainable transportation solutions for everyday use, aiming to enhance the independence and quality of life for people with disabilities.

Key Initiatives:

1. **Publications – 191**
2. **Chitkara Leadership Summit 2024 –** This summit is one of the best practices of our university where all the leaders join hands, analyse their actions and progress as per the goals created and then chalk out strategies to steer the path for improved performance.

3. **Growth Opportunities for the Taskforce –** The taskforce on campus is also provided with ample opportunities to grow professionally so that they can advance in their career.

4. **Entrepreneurship and Collaboration for Inbound / Outbound Student Exchange Programs for students** - This academic year, students from various departments at Chitkara University actively participated in international programs, enriching their learning experiences and enhancing their professional profiles. Students joined semester exchange programs at La Salle Ramon Llull University, Spain, and Chung Ang University, South Korea.

Publications – 191
Courses – 47
Student Activities – 96
Patents – 130 /Collaborations – 66

More at:
https://sustainable.chitkara.edu.in/pdfs/sdg/SDG-8-Report.pdf

CHITKARA LEADERSHIP SUMMIT 2024

Leaders also need guidance! Peer-interaction, brainstorming and team building can in fact add a huge amount of improvement to the performance. One of the best practices we follow on our campus is the Chitkara Leadership Summit. A positive work culture, clear communication, clarity of goals, motivation and recognition are ensured in our organisation for which this summit acts as a booster.

Chitkara Leadership Summit - 2024, was organised from **April 13-15, 2024.** The summit this year encouraged the leaders to finalise their vision for 2030, in which Sustainable goals played a major role. The sustainability practices adopted by the campus were discussed and plans made providing a short-term goal as well long-term goal for the campus on Sustainability Practices.

Women Leaders @ Summit

We would like to define this summit as a rendezvous of leaders of the Chitkara Fraternity, where they meet to introspect their actions, analyse their milestones, realign with the vision and
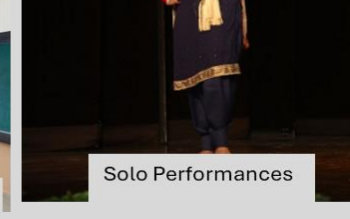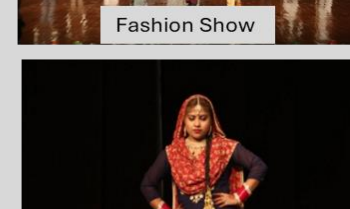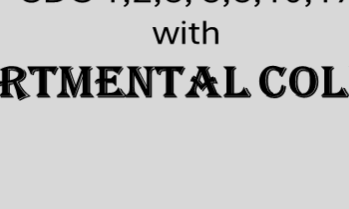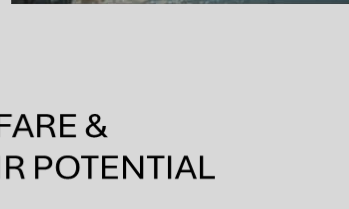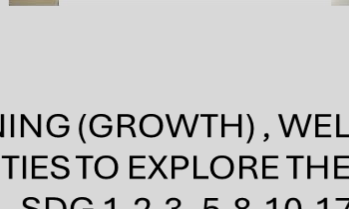

mission, rejuvenate, create beautiful memories, plan future actions, and then return to campus, to continue to perform, with even more motivation, and with a better understanding of their goals!!

TRAINING & OPPORTUNITIES FOR TASKFORCE

Not only are the leaders of the campus provided opportunities for learning and career growth, but the taskforce is also provided with all opportunities for career growth. The taskforce, which is mostly local staff are equipped with training sessions and welfare activities so that they have options to grow in the profession as well as to explore their potential. While many of the sessions organised for the workforce is with collaboration within various schools on campus, external guests and professionals are also invited to conduct sessions for these staff.

Sessions For Service Staff

Sessions For Welders

Sessions For Plumbers

Sessions For Carpenters

Group Performance

Sessions For Housekeeping

TRAINING (GROWTH) , WELFARE &
OPPORTUNITIES TO EXPLORE THEIR POTENTIAL
SDG 1,2,3, 5,8,10,17
with
INTRA- DEPARTMENTAL COLLABORATIONS

Fashion Show

Water Sciences Session

Sessions on IT

Session on Stress Management

Sessions on Happiness

Session on Mental Wellbeing

Solo Performances

OUTBOUND SEMESTER EXCHANGE PROGRAM 2023-2024:

During this academic year, students from various departments at our university have taken part in an array of international

programs, creating invaluable learning experiences and enhancing their professional profiles. Three students from the School of Architecture and Planning joined the Semester Exchange program at La Salle Ramon Llull University in Spain and Chung Ang University in South Korea, while one computer applications student is currently at Western Sydney University, Australia. Additionally, a business school student is participating in an exchange at DHBW, Germany, where thirteen other students are also involved in a virtual collaborative project course.
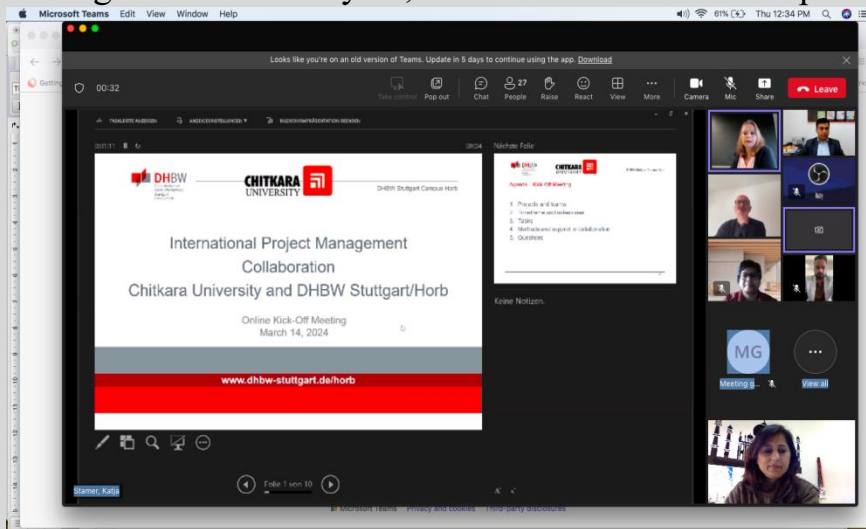
NATIONAL CHUNG CHENG UNIVERSITY, TAIWAN:

The Office of International Affairs at Chitkara University recently hosted a prestigious delegation from National Chung Cheng University (NCCU), Taiwan. The discussions primarily focused on the Smart City Research Laboratory, a collaborative four-year initiative between Chitkara University and NCCU,

supported by Taiwan's National Science and Technology Council (NSTC). This project aims to advance expertise in artificial intelligence (AI) and develop practical applications that contribute to sustainable economic growth and job creation. This visit not only strengthened academic and research ties between Chitkara University and NCCU but also highlighted the potential of international collaboration in driving technological advancements and fostering economic growth.

CHITKARA UNIVERSITY

Jul 2023 – June 2024

Key Initiatives:

1. **Publications – 401**
2. **Bridging Design Thinking and Entrepreneurship** – This 3 day workshop was designed to provide students with in-depth knowledge and practical skills in web development, covering essential topics such as HTML, CSS, JavaScript, PHP, and Laravel
3. **62nd All India Wheat & Barley Workers Meet 2023**
4. **Open Roads Designer Workshop**: This training provided hands-on experience in designing roadways using Open Roads Designer software. Participants gained insights into corridor modelling, geometric design, and visualization techniques essential for developing sustainable transportation infrastructure, aligning with SDG 9's focus on resilient and safe infrastructure.
5. **Workshop On Generative Artificial Intelligence in Healthcare** – This workshop highlighted the crucial role of pharmacists in advancing healthcare through cutting-edge technology, data analytics, and telepharmacy services.
6. **Innovation and Skill Development Workshop:** This workshop provided insights into power generation economics and the operational aspects of the Nabha Power Plant.
7. **CADD Workshop on Drug Discovery:** This workshop was to provide practical skills in utilizing drug and protein databases, enhancing their ability to identify potential drug candidates efficiently.
8. **Pharmaceutical Regulatory Affairs Seminar**: The seminar offered insights into innovative techniques and databases crucial for meeting regulatory requirements in the pharmaceutical industry

Publications – 401
Courses – 252
Student Activities – 217
Patents – 508 /Collaborations – 57

More at:
https://sustainable.chitkara.edu.in/pdfs/sdg/SDG-9-Report.pdf

BRIDGING DESIGN THINKING AND ENTREPRENEURSHIP -

Department of Computer Applications in collaboration with the Institution's Innovation Council, IIC, Chitkara University, Punjab, and Towais Pvt. Ltd organized a 3-day workshop on WebDev Innovate: Bridging Design Thinking and Innovation. This workshop was designed to provide students with in-depth knowledge and practical skills in web development, covering essential topics such as HTML, CSS, JavaScript, PHP, and Laravel. Whether a student is a beginner or has some prior experience, these sessions will cater to all skill levels and help you take your web development skills to the next level.

62ND ALL INDIA WHEAT & BARLEY WORKERS MEET 2023 IN UDAIPUR:

The All India Wheat and Barley Workers Meet aims to generate employment opportunities within the industry while encouraging sustainable practices and innovation. By investing in infrastructure development, the industry seeks to assist workers and build resilient structures that promote inclusive and sustainable industrial growth while fostering innovation. The three-day event in Udaipur proved to be highly informative, attracting around 500 scientists, including four Deputy Director Generals from ICAR. Numerous speakers showcased their research during the meet. The role of industrial automation in agriculture remains vital, facilitating the effective planting, cultivation, and harvesting of crops on a large scale. The significance of financial support emerged as a crucial element in promoting the development and implementation of innovative agricultural technologies.

OPEN ROADS DESIGNER WORKSHOP: The Open Roads Designer workshop is an immersive training event focused on equipping participants with practical skills in advanced roadway design using premier software tools. Through hands-on sessions and guided exercises, participants will learn essential aspects of geometric design, corridor modelling, and visualization. The workshop aims to enhance the efficiency and safety of road infrastructure projects.

CADD WORKSHOP ON DRUG DISCOVERY: The Computer-Aided Drug Designing (CADD) workshop at Chitkara College of Pharmacy provided an in-depth exploration of innovative drug discovery techniques using advanced software tools. The participants gained practical skills in utilizing drug and protein databases, enhancing their ability to identify potential drug candidates efficiently. The event highlighted the integration of technology in pharmaceutical research, contributing to faster and cost-effective drug development. Aligned with SDG-9 (Industry, Innovation, and Infrastructure), the workshop emphasized the role of cutting-edge technology in promoting sustainable advancements in healthcare.
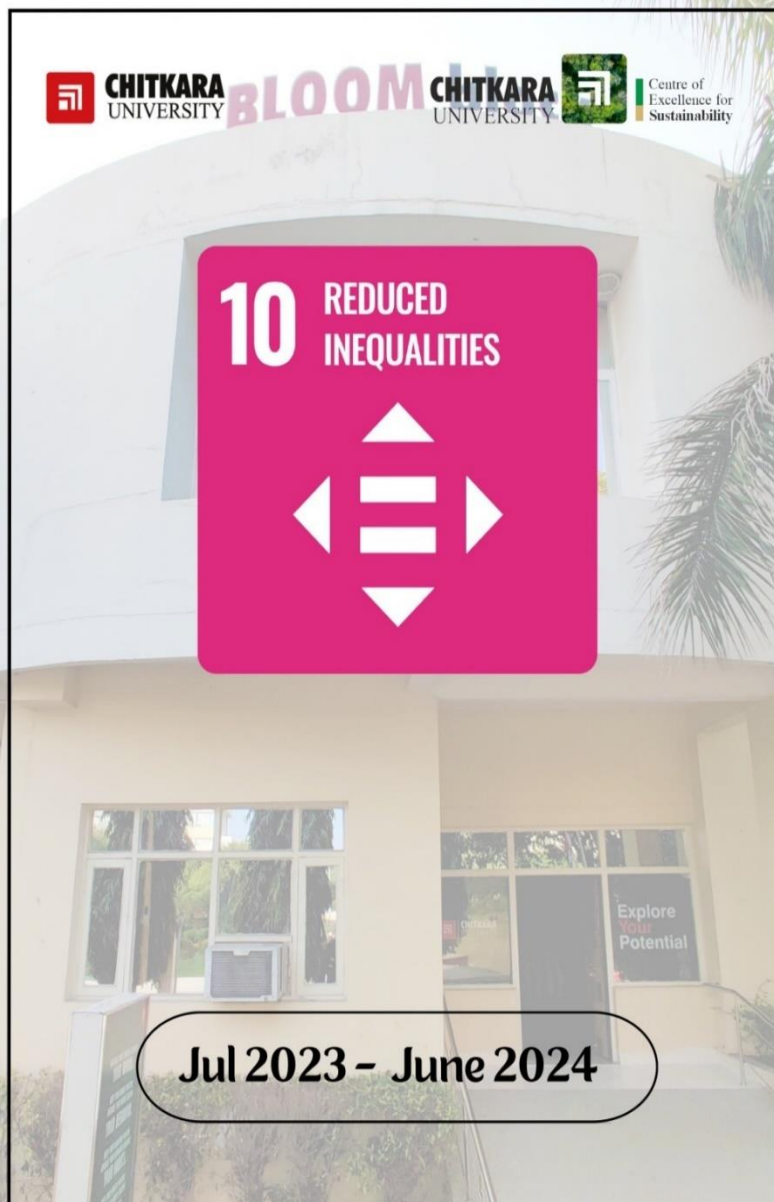
INNOVATION AND SKILL DEVELOPMENT: The industrial talk on "Practitioners' Approach towards Power System Protection and Switchgear," coordinated by Dr. Swati Arora, offered Electrical Engineering students a deep dive into the critical aspects of safeguarding electrical networks. Engaging 42 participants from the 2021 batch, the session covered topics like overcurrent relays, differential transformer relays, and Merz-Price distribution systems. Students gained hands-on insights into relay functions and the design of robust protection schemes. The event highlighted the significance of modern protection technologies in ensuring grid reliability, aligning with SDG-9 (Industry, Innovation, and Infrastructure) by promoting advancements in power system safety and efficiency.

WORKSHOP ON GENERATIVE ARTIFICIAL INTELLIGENCE IN HEALTHCARE: Chitkara College of Pharmacy celebrated World Pharmacist Day on September 25, 2023, with the theme "Pharmacists Strengthen Health Systems Using Innovative Techniques." The event featured quiz competitions, speeches, and model presentations. Speakers highlighted the crucial role of pharmacists in advancing healthcare through cutting-edge technology, data analytics, and telepharmacy services. The discussions emphasized pharmacists' contributions to medication management, patient adherence, and personalized treatment plans.

PHARMACEUTICAL REGULATORY AFFAIRS SEMINAR: Chitkara College of Pharmacy hosted a seminar on "Pharmaceutical Regulatory Affairs: Industry Perspective" on October 3, 2023, featuring Dr. Pranab Moudgil, Associate Vice-President of Regulatory Affairs & Pharmacovigilance at Medreich Pvt Ltd. The seminar offered insights into innovative techniques and databases crucial for meeting regulatory requirements in the pharmaceutical industry. Dr. Moudgil emphasized the importance of regulatory affairs in drug development, approvals, and compliance, highlighting its role in navigating complex global regulations.

BLOOM
CHITKARA UNIVERSITY | Centre of Excellence for Sustainability

10 REDUCED INEQUALITIES

Explore Your Potential

Jul 2023 – June 2024

Key Initiatives:

1. **Publications – 43**

2. **Project on Cycle- Assist wheelchair Mobility -** Chitkara University's CycleAssist project enhances mobility for wheelchair users by converting standard bicycles into wheelchair-compatible tricycles. This innovative attachment system offers an affordable and versatile transportation solution, improving access to healthcare, social activities, and economic opportunities for people with physical disabilities.

3. **Celebration of National & International Festivals** – As a practise all National Celebrations and festivals are celebrated on campus. To bring in the spirit of unity and to enable cultural exchange International festivals as well as festivals of the different states of the country is also celebrated.

4. **National Unity Day** - University celebrated National Unity Day (Rashtriya Ekta Diwas) with a meaningful event marking the birth anniversary of Sardar Vallabhbhai Patel.

5. **G 20 – University Connect Program -** The G20 University Connect Program in collaboration with the Research and Information System for Developing Countries (RIS), Ministry of External Affairs, Government of India, marks a significant step toward fostering social equality and inclusion.

6. **Health Facility Program -** University is dedicated to enhancing community health through a range of outreach programs. The university organizes free health camps, wellness screenings, vaccination drives, blood donation camps, and mental health awareness sessions.

7. **Divyangjan Facilities** – The campus prioritises the facilities provided and includes the facilities for all genders as well as for the physically challenged. This year too we have added facilities in the form of toilets, lifts with braille enabled switchboards, ramps with railings etc.

Publications – 43
Courses – 19
Student Activities – 46

More at:
https://sustainable.chitkara.edu.in/pdfs/sdg/SDG-10-Final-Report.pdf

Contributing to SDG 10, students of Mechanical Engineering, in collaboration with the Centre of Excellence for Sustainability, worked on a project to provide the physically challenged with a cycle-assist wheelchair.

Chitkarians + Technology for Inclusivity
(CycleAssist - Wheelchair Mobility)

CycleAssist is an innovative attachment system that converts standard bicycles into wheelchair-compatible tricycles, providing an affordable and versatile transportation solution for wheelchair users. This project is a collaborative effort between the Centre of Excellence for Sustainability and the Department of Mechanical Engineering (CUIET). The idea was presented by the Centre of Excellence for Sustainability to the Department of Mechanical Engineering (CUIET), and together, students and faculty members of Department of Mechanical Engineering (CUIET), contributed towards bridging the gap between able-bodied and special-abled individuals. Key features of CycleAssist include universal compatibility, easy installation, enhanced stability, and portability. It significantly improves mobility and access to healthcare, social activities, economic opportunities, emergency response, and rural areas. While addressing challenges like compatibility and safety, future developments may include electric assist and smart features. CycleAssist offers a cost-effective way to enhance independence and quality of life for individuals with physical disabilities.

CELEBRATION OF NATIONAL & INTERNATIONAL FESTIVALS

The campus makes efforts to celebrate all the National festivals and strives to incorporate the festivals of other states of the country. For the International students on campus too celebrations are arranged. All these are done with the aim of inculcating the spirit of nationalism, unity in diversity and enabling the students to appreciate the traditions and cultures of other states and countries. To mention a few - campus celebrated **"Thruebab"** Happy Blessed Rainy Day, with Bhutanese Students at the campus on 23rd September 2023 while the campus celebrated the Nepalese **Tihar Festival** on 12th November 2023. **The Losar Festival"** means Bhutanese New Year on 10th February 2024 which was also celebrated on campus.

International Students from Bhutan, Nepal and Zimbabwe celebrated the Vibrant Colours of India. Happy Holi on 25th March 2024 in Campus. Its even better when international students participate in the Indian Festival celebrations which showcases an atmosphere of unity and happiness. Have a look at the picture of International Students from Bhutan, Nepal and Zimbabwe celebrating the Vibrant Colours of India, the *festival of Holi* on 25th March 2024.

NATIONAL UNITY DAY: Chitkara University, Punjab, marked National Unity Day with a vibrant and meaningful celebration organized by the National Service Scheme (NSS). National Unity Day, also known as *Rashtriya Ekta Diwas*, commemorates the birth anniversary of Sardar Vallabhbhai Patel, the Iron Man of India, who played a crucial role in uniting the diverse princely states into a single, independent nation. The centerpiece of the event was a solemn oath-taking ceremony, in which participants pledged to uphold the unity, integrity, and security of India. This moving moment emphasized the importance of unity, transcending differences of caste, creed, and religion, and was a powerful reminder of the strength that lies in India's diversity.

G20 UNIVERSITY CONNECT PROGRAM

The Faculty of Economics at Chitkara Business School, Chitkara University, in collaboration with the *Research and Information System for Developing Countries (RIS), Ministry of External Affairs, Government of India,* achieved a significant milestone by successfully conducting the "G20 University Connect Program - Engaging Young Minds." The G20 University Connect Program aims to promote social equality and inclusion by providing equal opportunities for students from diverse backgrounds. Through this program universities work together to address financial discrimination and promote development that benefits all members of society.

HEALTH OUTREACH PROGRAMMES

University is actively involved in providing health services to the community through a variety of outreach programs and initiatives. The university regularly conducts free health camps, and wellness screenings for the local population, focusing on preventive care and early detection of diseases. Additionally, the university collaborates with healthcare organizations to offer vaccination drives, blood donation camps, and mental health awareness sessions. By engaging students and faculty from the medical and allied health sciences departments, Chitkara University aims to promote holistic health and well-being in the surrounding communities, supporting the broader goal of improving public health.

Patiala,PB,India
Rajpura, Patiala, 140601, PB, India
Lat 30.522959, Long 76.670041
11/21/2022 12:09 PM GMT+05:30
Note : Captured by GPS Map Camera

DIVYANGJAN FACILITY

Our campus has always prioritised facilities for the physically challenged (divyangjan). This year too we have provided more facilities for them in the new buildings including lifts with braille enabled switch panels, divyanjan friendly toilets and ramps with railings.

CHITKARA
UNIVERSITY

11 SUSTAINABLE CITIES AND COMMUNITIES

Jul 2023 – June 2024
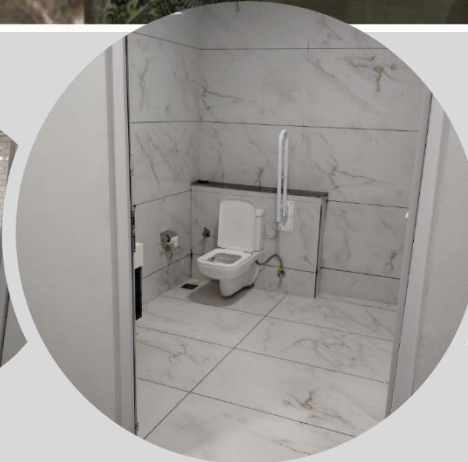
Key Initiatives:

1. **Publications – 162**

2. **Addition to Our Arts & Heritage Museum – The Haveli –** An extension of the Dhaba which is one of our museums and dining area where the culture and tradition of Punjab is maintained and preserved

3. **Activities -** Various activities were organised for the students where they could participate in events that kept them closer to their traditions and culture. This included activities on mother tongue too.

4. **D'Art Galery –** This is our space where students and scholars create art and showcase them to other stakeholders. It is a manner in which the University upholds art and tradition and encourages other stakeholders to also become a part of this activity.

5. **Green Spaces –** We are proud of our green spaces and some of the best green spaces include our Yellow Point Farm as well as our Tree Houses.

6. **Field Visit on Urban Planning:** Interior design students visited FDDI to study sustainable design practices and the impact of building design on urban planning. The hands-on experience with building components helped students understand the role of infrastructure in creating sustainable communities.

Publications – 162
Courses – 81
Activities – 76
Patents – 80 /Collaborations – 3

More at:
https://sustainable.chitkara.edu.in/pdfs/sdg/SDG-11-Final-Report.pdf

The HAVELI - The Haveli is an addition to our endeavours to preserve and celebrate our culture and traditions. This venue was renovated and maintained further in this year so that our students and stakeholders could enjoy the venue as they understood the tradition and culture of the beautiful state of Punjab.

The Dhaba and the Spectacles are our museums and venue of art and refreshments, that highlight our achievements, tradition and culture.

The Spectacles is a live album that takes you down the memory lane, a museum where the story of Chitkara unfolds with pictures, documents, artefact, magazines, trophies etc. A portion of this museum is dedicated for showcasing the culture of Punjab too. Our **Sculpture Garden** also displays the artwork of the students and researchers that speaks volumes of the efforts manoeuvred towards highlighting art and culture.

The collaboration between Chitkara University and various NGOs reflects a shared commitment to community development, social responsibility, and impactful change. This partnership leverages the expertise and resources of the

university with the grassroots reach of NGOs to address critical societal issues, including health, education, gender equality, and environmental sustainability.

ACTIVITIES – Every tradition and culture is unique and has a story of its own. In a world of advanced technology and AI, holding on to our culture and traditions is a necessity. Students participated in *more than thirty* State level, National level competitions showcasing their talent on activities that nurture tradition and culture. On campus too various events were organised for students to participate and showcase their talents in various traditional forms of dance, music, literature etc.,

D'ART GALLERY:

Our Art Gallery at Chitkara University is a vibrant space dedicated to the display and celebration of creativity. It features rotating exhibits from student artists, faculty, and visiting professionals, encompassing a variety of media such as paintings, sculptures, and photography. The gallery not only encourages artistic expression but also fosters cultural dialogues through exhibitions and interactive sessions. It serves as a dynamic platform where creativity thrives, making it a central venue for art lovers on campus.
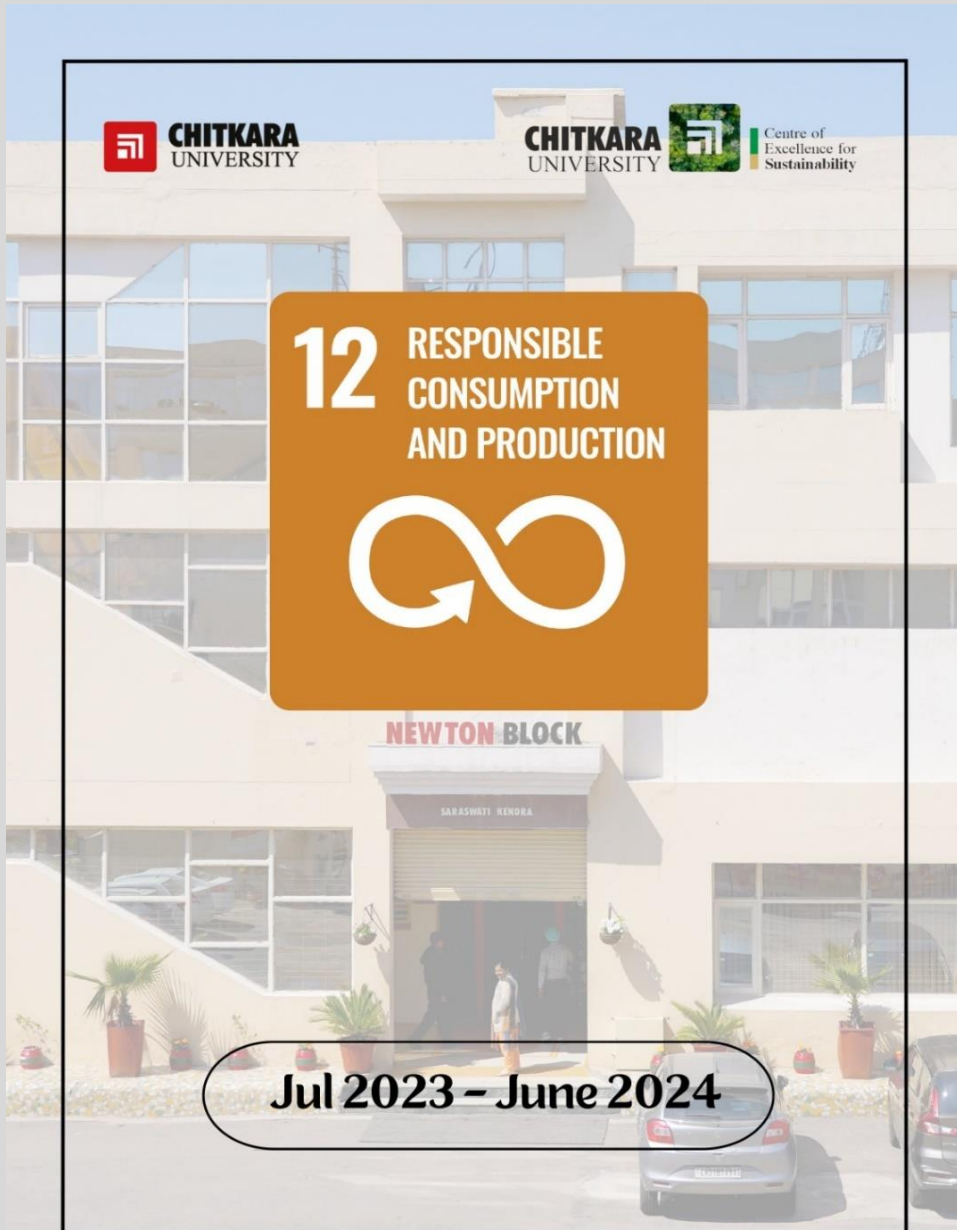
GREEN SPACES

The Tree Houses are the most unique spaces on campus, symbolizing the university's connection with nature and the outdoors. Nestled among the trees, this elevated structure offers a tranquil retreat for students, serving as a space for informal meetings, study sessions, or just a quiet escape from the routine of university life. The Tree House encourages students to experience the beauty of nature while promoting mindfulness and relaxation amidst academic pursuits. This eco-friendly design also reflects the importance of minimal environmental impact, using sustainable materials to create a harmonious blend with its natural surroundings.

TRAINING ON FIRE SAFETY:

Firefighting and disaster prevention are crucial aspects of building urbanization to ensure the safety and well-being of residents. By implementing strategies to prevent natural disasters and having efficient firefighting measures in place cities can better protect their populations and infrastructure. Sustainable Development Goal 11 aims to make cities more resilient to disasters and promote sustainable urbanization practices. It is important for governments and communities to work together to create safer environments and minimize the impact of emergencies on urban areas. By prioritizing disaster prevention and firefighting efforts, we can create more resilient and sustainable cities for future generations.

CHITKARA
UNIVERSITY

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

NEWTON BLOCK

Jul 2023 – June 2024

Key Initiatives:

1. **Publications – 164**
2. **Waste Management** – Tremendous efforts have been made in waste management on campus. Segregation at base and reducing the waste to landfill has been on priority.
3. **Food Waste** – While the Green Plate program of our campus strives to provide leftover food to the labor, the rest of the food waste is prudently utilised for recycling into manure as well as in the biogas plant. The biodegradable waste decomposer installed also helped improve the pace of converting the waste as manure.
4. **Paper Recycling Plant** – The paper recycling plant of the campus managed to recycle thousands of kilograms of paper and produce sufficient files and notepads for the schools/college and departments of the campus. Students were also provided training on the process.
5. **Reusing stubble for Mushroom Production Unit**
6. **Hands-on training for Creating Bio Enzyme** – Students were encouraged to participate in sessions to understand how to create bioenzymes.
7. **"Fasprint" – National Student Fashion Competition**: The Fashion Design Department held a competition focusing on sustainable themes, including "Life Below Water." Students crafted garments reflecting the importance of ocean conservation, highlighting issues like pollution and climate impact on marine life.
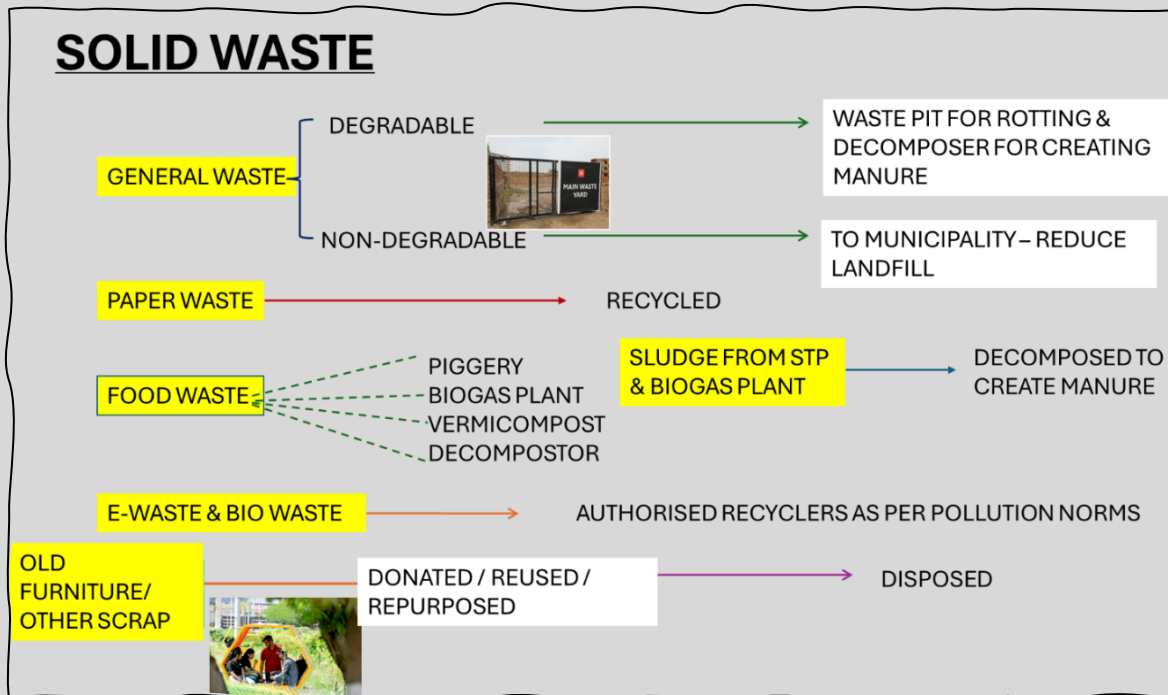
Publications – 164
Courses – 73
Student Activities – 22
Patents – 60 /Collaborations – 26

More at:
https://sustainable.chitkara.edu.in/pdfs/sdg/SDG-12-Responsible-Consumption-and-Production.pdf

WASTE MANAGEMENT

There has been a tremendous number of efforts steered towards proper management of waste. Policies are in place and so are processes. This year the efforts were towards reducing the waste to landfill. With continuous efforts in this year, we managed to repurpose and reuse /recycle 87% of our waste and only 13% was sent to the landfill, and that too as per the laid norms of the Government.

SOLID WASTE

GENERAL WASTE
- DEGRADABLE → WASTE PIT FOR ROTTING & DECOMPOSER FOR CREATING MANURE
- NON-DEGRADABLE → TO MUNICIPALITY – REDUCE LANDFILL

PAPER WASTE → RECYCLED

FOOD WASTE
- PIGGERY
- BIOGAS PLANT
- VERMICOMPOST
- DECOMPOSTOR

SLUDGE FROM STP & BIOGAS PLANT → DECOMPOSED TO CREATE MANURE

E-WASTE & BIO WASTE → AUTHORISED RECYCLERS AS PER POLLUTION NORMS

OLD FURNITURE/ OTHER SCRAP → DONATED / REUSED / REPURPOSED → DISPOSED

BOTTLES BIN

Single use plastic is banned on campus since 2022. But for the rest of the plastic that finds its way into the campus as bottles for soft drinks etc. Many a time these would get into the general waste and there were chances of these finding their way to the landfill. To avoid the same and to encourage students to deposit their bottles at a place from where they could easily be repurposed/ reused, we created a ***Bottles Bin,*** which is very well used by all students now. This way we ensure best disposal of plastic bottles.

FOOD WASTE At Chitkara University, efforts to manage food waste on campus are part of a broader commitment to sustainability. The food waste generated in the campus dining facilities is effectively utilized through multiple eco-friendly initiatives. A significant portion is sent to a piggery, where it serves as animal feed, reducing waste while supporting local agriculture. Another portion is used in biogas production, where organic waste is converted into renewable energy, contributing to a greener campus. Additionally, food waste is processed through vermicomposting, enriching the soil with natural compost that supports campus landscaping and gardening. Any remaining waste is responsibly disposed of in a landfill pit, ensuring minimal environmental impact. These integrated waste management practices reflect the university's dedication to sustainability and its proactive approach to reducing food waste.

PAPER RECYCLING PLANT - The plant processes wastepaper collected from across the campus, transforming it into recycled paper products. This initiative not only reduces the environmental impact by minimizing paper waste but also educates students and staff about the importance of circular economy practices. The plant serves as a live laboratory for students, providing hands-on experience in waste management, sustainability practices, and green innovations. It is integrated into the curriculum, offering learning opportunities through projects and research on eco-friendly paper production techniques.

 STUBBLE USED FOR MUSHROOM PRODUCTION UNIT The Mushroom Production Unit at the Rajpura Campus works on preserving food through sustainable methods. The existing Mushroom Production Unit was renovated using stubble from nearby farms, thus reducing the amount of stubble that farmers tend to burn, causing pollution to the environment. Further, by making use of natural resources like water and sunlight, the unit strives to minimize food waste and support sustainable farming practices. This effort is in line with a focus on responsible consumption and production.

SUSTAINABLE LIFESTYLE WORKSHOP AND HANDS-ON BIO ENZYME WORKSHOP

The Department of Communication Design, in collaboration with the Centre of Excellence for Sustainability and College of Education, hosted a special event on 22nd April 2024 to celebrate World Earth Day. During this event, attendees will learn about the importance of reducing waste, recycling, and using eco-friendly products. The event featured two insightful workshops: a Sustainable Lifestyle Workshop and a Hands-on Bio Enzyme Workshop. The primary objective of the Earth Day Event was to raise awareness about environmental issues and the importance of sustainable living practices among participants.

STARTUPS CONTRIBUTING TO SDG12

CUSTOSHOES - A circular economy startup, they specialize in converting ***old shoes into new and trendy shoes*** by repairing them and providing eye catching trends. They leverage AI/ML technology and 3D scanners to provide new designs and provide customers with more choices and provide customization of shoes and create matching *Lehangas* as well.

They go a step further and contribute towards the society as they ***train the local artisans from villages*** and get the repair and beautification work done by these artists providing them 30% of profits for their work

PARRAVE VENTURES PVT. LTD. - An IOT-based smart vending machine startup. The startup uses ***recycled materials*** sourced from sustainable suppliers in the machines they create and also use ***energy-efficient components*** of the highest quality along with Sensors and LED lights to save on energy.

At Parrave, ***a tree is planted*** for every deployed machine to offset our carbon footprint. It's a startup that understands and contributes towards EPR!!

CHITKARA UNIVERSITY

CHITKARA UNIVERSITY | Centre of Excellence for Sustainability

13 CLIMATE ACTION

CHITKARA UNIVERSITY

SQUARE ONE

Jul 2023 - June 2024

Key Initiatives:

1. **Low Carbon Tracking -** University is committed to achieving carbon neutrality by 2029 through a series of initiatives aimed at reducing carbon emissions. The university utilizes advanced solar cloud-based monitoring systems—iSolarCloud by Sungrow and Aurora Vision by Fimer—to track the performance of two solar power plants.

2. **World Nature Conservation Day –** The event provided a creative platform for students to express their support for environmental conservation, fostering a sense of responsibility and encouraging them to actively contribute to the preservation of nature.

3. **Tree Plantation Drives** - University has organized over thirty tree plantation drives, with one notable event held on Republic Day, January 26, 2024. The drive, spearheaded by the NSS, aimed to combat climate change by planting trees that help absorb carbon dioxide. This initiative linked patriotism with environmental responsibility, celebrating the country's values while promoting sustainability.

Publications – 71
Courses – 59
Activities – 35
**Patents – 08 /Collaborations – 01**

More at:
https://sustainable.chitkara.edu.in/pdfs/sdg/SDG-13-Climate-Action.pdf

CHITKARA UNIVERSITY'S LOW CARBON ENERGY TRACKING

The institution's initiatives to monitor and reduce carbon emissions through solar energy utilization. The university leverages two advanced solar cloud-based monitoring systems—iSolarCloud by Sungrow and Aurora Vision by Fimer. These systems are used to track the performance of solar power plants with capacities of 200 KWp and 350 KWp, respectively.
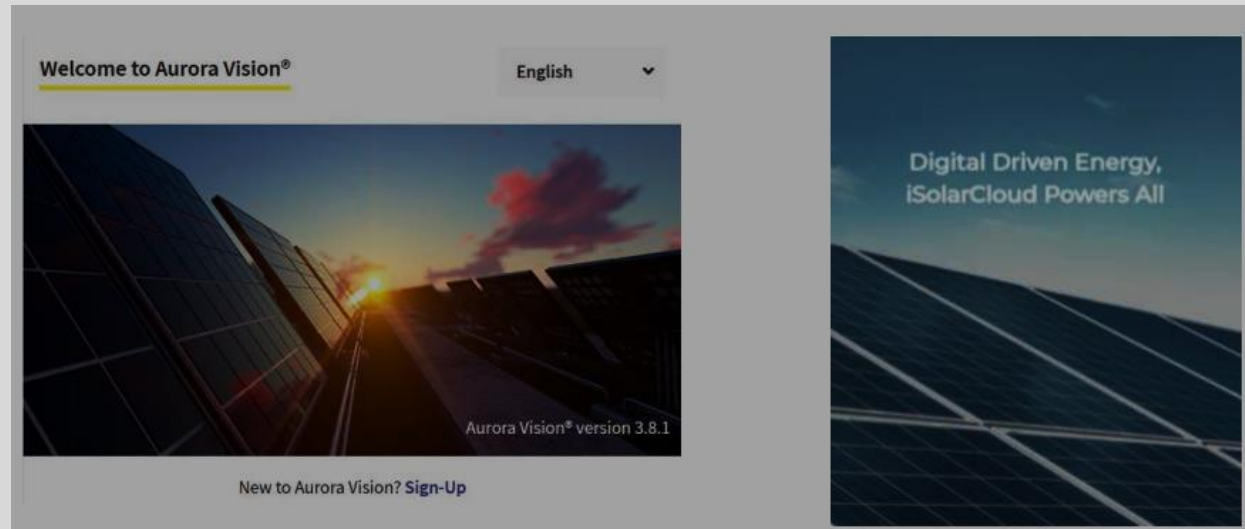
The university aims to achieve carbon neutrality by 2029, focusing on areas such as renewable energy expansion, enhancing energy efficiency, promoting electric vehicle use, improving waste management, and increasing green cover on campus. Overall, the total emissions for 2023-24 were 1,383.60 tons of CO_2 equivalent, showing a reduction from the previous year's total of 1,821.29 tons.

In addition to solar energy, Chitkara University has embraced energy-efficient technologies such as LED lighting and energy-saving HVAC systems. By replacing traditional lighting with LEDs, the university has reduced energy consumption for lighting by up to 75%.

WORLD NATURE CONSERVATION DAY

The Department of Computer Applications, under the aegis of the National Service Scheme (NSS), organized the Poster Making Competition in online mode to celebrate World Nature Conservation Day. The posters featured powerful messages and striking visuals, highlighting the need for sustainable practices, biodiversity preservation, and the protection of wildlife. The event provided a platform for students to channel their artistic talents towards a noble cause. The competition fostered a sense of responsibility and commitment among participants, inspiring them to play an active role in environmental preservation.

TREE PLANTATION DRIVES

There have been more than thirty plantation drives on campus. One of them was as part of the Republic Day celebrations on January 26, 2024. This initiative sought to address climate change by planting trees that absorb carbon dioxide from the air. To honor our country and its values, NSS organized a tree plantation drive that linked patriotism with environmental care. Many such plantation drives are organised on campus and in the society spreading awareness on the need to increase our greenery and reduce pollution on the environment.

14 LIFE BELOW WATER

Jul 2023 – June 2024

Key Initiatives:

1. **Publications – 09**
2. **Environmental Protection Practices Session**: This workshop by CUSMS cadets focused on marine pollution. Students learned about garbage management on ships, sewage treatment, and freshwater generation, reinforcing SDG 14's emphasis on protecting marine environments.
3. **Debate on Marine Pollution Mitigation Innovations**: Students debated the role of recent innovations in reducing marine pollution. Topics included waste management and sustainable fishing practices stressing SDG 14's focus on ocean health.
4. **Poster-Making Competition for Earth Day**: Organized by CUSMS, this event had students create posters promoting environmental sustainability, including SDG 14 themes on marine conservation. The competition encouraged innovative visual messaging on climate and biodiversity issues.
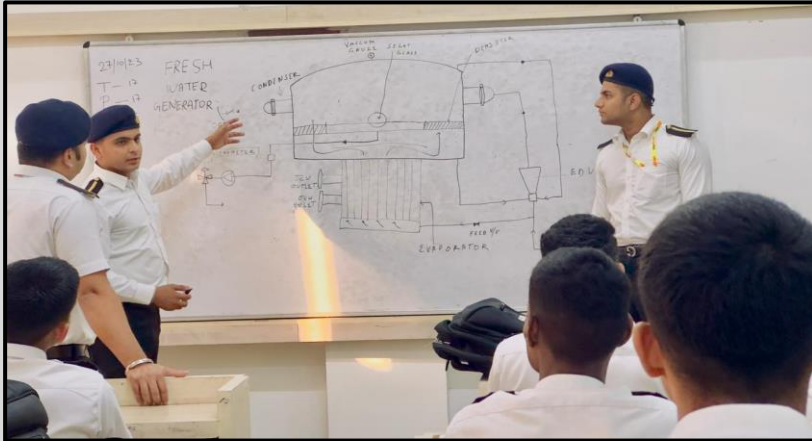
Publications – 9
Courses – 31
Student Activities – 7

More at:
https://sustainable.chitkara.edu.in/pdfs/sdg/SDG-14-Report.pdf

A SESSION ON ENVIRONMENTAL PROTECTION PRACTICES

This workshop was conducted to spread awareness about Marine Pollution. SDG 14 focuses on protecting the ocean environment from pollution and contamination. It is important to implement environmental protection practices to ensure that aquatic ecosystems are preserved for future generations. By taking action to reduce pollution and clean up contaminated areas we can help to maintain the health and biodiversity of our oceans. It is crucial that governments, businesses and individuals work together to address these issues and create a sustainable future for our planet.

DEBATE COMPETITION – ENVIRONMENTAL

A spirited debate unfolded among students, centering on the pivotal issue, **'Are Recent Innovations playing a role in mitigating Marine Pollution?'** Enthusiastically organized, the event showcased diverse perspectives, exploring technological advancements, waste management strategies, and sustainable practices. Students presented compelling arguments, scrutinizing the impact of innovations on our oceans. The debate was justified within the current trend of prioritizing environmental sustainability. It provided a crucial platform for students to analyze and discuss cutting-edge solutions, aligning with the global focus on eco-friendly practices.

CHITKARA UNIVERSITY SCHOOL OF **MARITIME** STUDIES

Debate Competition
Are Recent Innovations playing a role in mitigating Marine Pollution?
The aim is to engage in a debate on the efficacy of Innovative Techniques utilized in the maritime sector in addressing and reducing Marine Pollution.

Date : 6th January, 2024
Time : 3:30pm Onwards
Venue: Einstein Hall

MARINE POLLUTION

CHITKARA
UNIVERSITY

15 LIFE ON LAND

BABBAGE BLOCK

Jul 2023 – June 2024

Key Initiatives:

1. **Publications - 56**
2. **Swachhta Hi Seva: Global Clean & Green Week:** The event promoted a cleaner and greener campus, contributing to both environmental health and community engagement through initiatives like **Nukkad Naatak** (street plays) promoting cleanliness and environmental conservation.
3. **Tree Plantations & Horticulture Activity -**These efforts are supported by a focus on horticulture, with the university maintaining lush gardens and green spaces that promote biodiversity and improve the campus ecosystem.
4. **Miyawaki Forest -** University has launched a Miyawaki Forest project at Yellow Point Farms, spanning 300 square meters. This initiative, aimed at enhancing biodiversity and creating a greener campus, features 1,200 native plants**.**
5. **Mushroom Production Unit -**We launched a Sustainable Mushroom Production Unit, aligning with India's efforts to boost vegetable and fruit production.
6. **Vertical & Terrace Gardens -** University enhances its campus greenery through innovative vertical and terrace gardens, making the most of every available space. These gardens not only add to the aesthetic appeal of the campus but also create serene spaces for students and faculty to relax and unwind**.**

Publications – 56
Courses – 46
Student Activities – 30
Patents – 07
Collaborations – 01

More at:
https://sustainable.chitkara.edu.in/pdfs/sdg/SDG-15-Report.pdf

SWACHHTA ACTIVITIES

Numerous activities are initiated to keep the campus and the surroundings clean and well maintained. Students are also made part of such activities at regular intervals to inculcate in them the understanding and habit of maintaining clean and green spaces.

Many activities are organised in the nearby villages also. These activities are usually combined with tree plantation drives also.

Street plays known as "*Nukkad Naatak*" is added to such events where students spread awareness on the need for proper disposal of waste,

maintain clean and green spaces and respecting the need for maintaining a pollution free environment.

This year there were more than twenty-five such activities were organised in the campus and in the society.

TREE PLANTATION- WORLD ENVIRONMENT HEALTH DAY

In an earnest and commendable effort to contribute to the preservation of our environment, the Matrix Club, under the aegis of the Department of Computer Applications at Chitkara University Punjab, organized a Tree Plantation event on World Environment Health Day. The event was conducted with the theme "Drive Green India Mission" and took place on the beautiful grounds of Chitkara University's Zero Ground. This initiative aimed not only to celebrate World Environment Health Day but also to raise awareness about the vital role trees play in maintaining the ecological balance and the significance of collective responsibility in preserving our planet.

TREE PLANTATION DRIVE ON WORLD EARTH DAY

Tree planting events on World Earth Day play a crucial role in fighting deforestation and supporting environmental sustainability. By increasing the number of trees, we can help protect biodiversity and focus on the conservation, restoration, and responsible management of land ecosystems. These initiatives not only support biological diversity but also contribute to a healthier, greener planet for future generations. World Earth Day is observed on April 22 each year. This year, Chitkara University celebrated the occasion with a tree-planting event aimed at raising awareness about the importance of safeguarding our planet's ecosystems and biodiversity. Students and faculty took part in planting trees and engaging in discussions on how to address population declines and encourage sustainable living.

HORTICULURE ACTIVITY					
	2019-20	**2020-21**	**2021-22**	**2022-23**	**2023-24**
Area of campus allotted for Greenery & Percentage	21.85 acre / 34.43%	22.60 acre /35.61%	21.02 acre/ 33.12	21.08 acre/33.22%	21.08 acre / 33.22%
Manure Required / Managed from in-house sources	3200kg/1600kg	3500kg/1800kg	3200kg/2000kg	3300kg/2200kg	3300kg/2500kg
No. of Shrubs, Plants & Trees	8461	8986	9456	9765	10410
No. of drought tolerant plants / trees	19.50%	20.01%	21.50%	21.50%	21.90%
No. of Medicinal plants in Herbal Garden	145	175	210	305	333
No. of Vertical Gardens on campus	10	13	15	18	21
No. of Terrace Gardens on campus	1	2	2	4	6
Plastic Reused for Horticulture	100 planters	250 planters	375 planters	450 planters	475 planters
No. of drip Irrigation / sprinklers on campus	5/10	5/ 13	8/15	15/18	30/ 23
Types of plants on campus	68	82	85	97	102

MIYAWAKI FOREST AT CHITKARA UNIVERSITY: University has initiated a Miyawaki Forest project to enhance biodiversity and contribute to a greener campus environment. This forest, located at Yellow Point Farms within the university, spans an area of 300 square meters and includes 1,200 native plants. The Miyawaki method, known for its quick forestation process, uses local tree species to replicate natural forest ecosystems, resulting in rapid growth and increased biodiversity.

MUSHROOM PRODUCTION UNIT: In September 2023, Yellow Point Farms at Chitkara University launched a flagship Mushroom Production Unit, aligning with India's focus on boosting vegetable and fruit production. The Sustainable Mushroom Production Unit at Yellow Point Farms is constructed using eco-friendly materials like paddy straw and scrap wood, making it a cost-effective alternative to modern setups.

VERTICAL GARDENS AND TERRACE GARDENS: Every inch of space matters; hence to increase greenery on campus we have many vertical gardens and terrace gardens too. These add to the greenery and to the aesthetic look of the venue. The terrace gardens are spaces where students and faculty enjoy the greenery as they engross on some leisure time. The beautiful and serene look of greenery all around, we are sure would contribute to the happiness quotient of all Chitkarians!!

Jul 2023 – June 2024

Key Initiatives:

1. **Publications** - 27

2. **Legal Aid Clinic** - The legal aid clinic provided legal guidance and support to the villagers this year also. The efforts are to provide them with a path they could follow and the right guidance for legal support.

3. **National Symposium of Lawyers:** This event, hosted by Chitkara Law School, gathered legal professionals to share insights into the legal profession, aiming to inspire students toward a successful career in advocacy. Esteemed speakers provided practical advice and shared personal experiences, empowering students to navigate the legal profession effectively

4. **Human Rights Day Declamation**: Chitkara Business School held a declamation contest focusing on global human rights issues, including gender equality and conflicts affecting rights. Students articulated these challenges through speeches, promoting

Publications – 27
Courses – 25
Student Activities – 28
Collaborations – 02

More at:
https://sustainable.chitkara.edu.in/pdfs/sdg/SDG-16-Report.pdf

LEGAL AID CLINIC

Legal Aid Clinic is part and parcel of every educational institution engaged in providing the legal education. It is not only a mandatory requirement of the Bar Council of India to run legal aid clinics, attached to the educational institutions, but also a mechanism provided under the Legal Services Authorities Act, 1986 to ensure social responsibility of the legal profession. The basic objective our clinic is to spread legal awareness in the community in the vicinity of the educational institutions and also to ensure participation of law students in various activities related to the legal awareness, legal aid, legal consultation etc. This year also there have been many sessions organised by the Legal Aid Centre for the villagers.

NLU DELHI NORTH ZONE QUIZ COMPETITION

Chitkara Law School with an objective to provide practical exposure to its students and developing their competitive spirit sent two teams to participate at the 7th edition of Conquest 2023 (India's Premiere National Quiz Competition on the Indian Constitution) organized by Centre for Law and Policy with support of National Law University, New Delhi.

NATIONAL SYMPOSIUM OF LAWYERS

Chitkara law school organized National Symposium of Lawyers on Pathways to Advocacy with a view to enlighten the future young legal professionals about the intricacies of Legal Profession. An effort was made to provide deep insight towards the practical difficulties faced by Legal Luminaries Par Excellence while progressing towards success.

Key Initiatives:

1. **Global Week** – One of our best practices, where faculty from International Universities spread all over the world visit our University to share their teachings and experiences with our scholars for them to be able to experience the benefits of International learning.
2. **Chitkara Mandi** – A collaboration with the local villagers where students learn the principles of business, marketing, and financing as they provide business to the villagers, and it leads to profitable business for the villagers with least burden of carbon emission as local purchase helps reduce transportation and middlemen are also eliminated.
3. **Collaborations for Student Exchange Programs as well as for SDGs** – With approximately 350 collaborations with various organisations and universities, efforts have been made to provide the students and stakeholders with options to explore learning, research and exchange programs.

17 PARTNERSHIPS FOR THE GOALS

Jul 2023 – June 2024

Publications – 9
Courses – 21
Student Activities – 270
Collaborations – 71

More at:
sustainable.chitkara.edu.in/pdfs/sdg/SDG-17-Report.pdf

GLOBAL WEEK

Global Week was launched by Chitkara University in 2013, starting with around six professors from different countries delivering lectures to engineering students. Since then, it has grown significantly in scale and impact. This initiative has evolved each year, becoming a hallmark event for the university, uniquely bringing the concept of "internationalization at home." Over time, the scope of Global Week has expanded beyond teaching and learning to include collaborative research and joint publications.

Through strategic collaborations with prestigious institutions worldwide, Chitkara University has positioned itself as a leader in international education. These partnerships go beyond academic articulations and student exchanges, encompassing study abroad programs and more. Significant effort is put into maintaining and strengthening these relationships, ensuring they are long-lasting. Global Week has also increased international mobility for both faculty and students each year.

Every partnership is handled with care and respect, generating tangible benefits for all involved institutions. Over the past seven years, Global Week has consistently expanded, benefiting faculty, students, and the growing number of international participants.

OVERALL RECORD OF GLOBAL WEEK @ CHITKARA UNIVERSITY

It's impressive that Chitkara University has organized a total of 15 Global Week events! Global Week is a significant initiative for educational institutions as it provides students with exposure to international perspectives through lectures, seminars, and workshops led by foreign faculty and professionals.

Global Weeks typically feature collaborative learning opportunities, international networking, and cultural exchanges, helping to build a global outlook among students. It's great to see Chitkara University actively engaging in such global initiatives

GLOBAL WEEK HELD IN YEARS

2013 to 2024

COUNTRIES

140+

GUEST PROFESSORS

380+

STUDENTS BENEFITTED

20K+

UNIVERSITIES

250+

CHITKARA MANDI

To groom and make our students industry ready, the pedagogy at Chitkara Business School comprises several student driven activities. One such activity is a field project comprising Direct Selling wherein the students are expected to float their own marketing ventures. This activity is named "Chitkara Mandi". The students are required to set up their own stalls/canopies stocked with goods bought from NGOs. This activity is conducted at different places every year. The students undertake such projects under faculties who remain present all through the day to guide and mentor them.

Chitkara Business School has taken several initiatives for the inclusive growth of following villages while advocating the importance of community engagement and development. Chitkara Mandi also gives opportunity to the students to collaborate with Several NGOs situated in tricity and working for different causes. This gives them the opportunity to work for the betterment of society. Students collect handmade products from NGOs and sell them at Chitkara Mandi.

Students are divided into groups Each group divides responsibilities as various functional managers Each group visits the Market Location Approach NGOs for products Procure marketable products Set up stalls a day before the event Groups approach customers and apply various marketing & Selling Strategies Students prepare financial statements analyzing cost & Revenue The financial reports are presented and assessed by their faculty mentor 3 | Page products from these NGOs and sell them at Chitkara Mandi. Following are the list of NGOs.

COLLABORATIONS

MOUs (2023-24)

SDG	Value
SDG 17	56
SDG 16	2
SDG 15	1
SDG 14	0
SDG 13	1
SDG 12	26
SDG 11	3
SDG 10	0
SDG 9	53
SDG 8	50
SDG 7	1
SDG 6	1
SDG 5	32
SDG 4	63
SDG 3	6
SDG 2	0
SDG 1	0
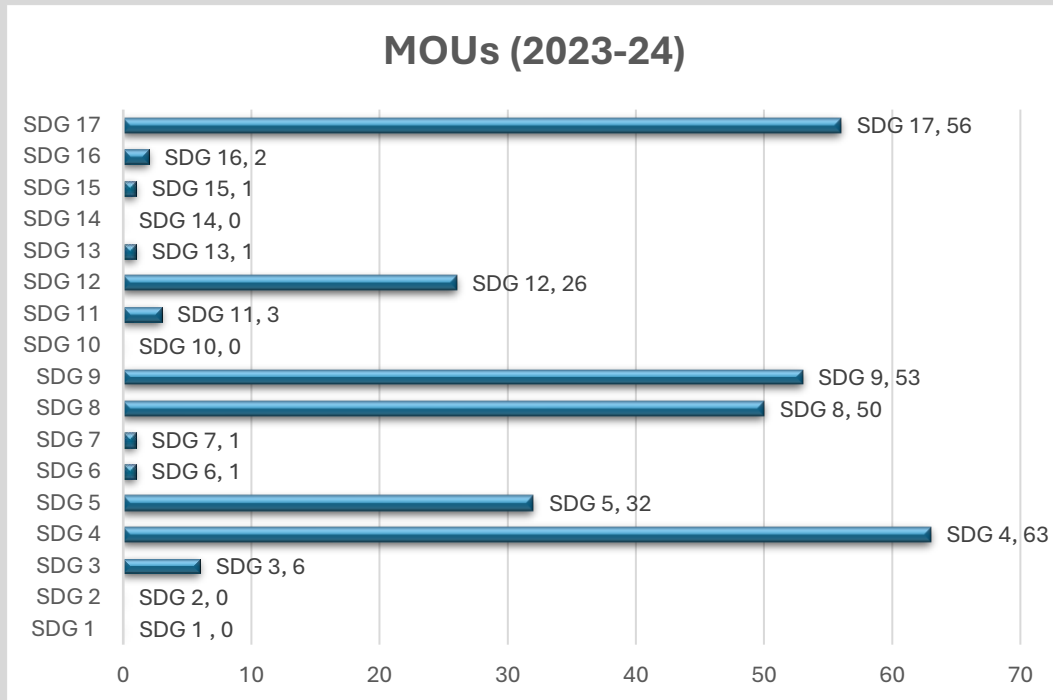
Chitkara University is committed to building a global academic network, ensuring that its students and faculty are provided with ample opportunities to learn and collaborate with some of the best institutions around the world.

In 2023-2024, the university signed numerous Memoranda of Understanding (MoUs) with both national and international organizations, enhancing its focus on interdisciplinary learning, research, and innovation.

More details about our MoUs on –

https://sustainable.chitkara.edu.in/collaborations/

STUDENT & FACULTY EXCHANGE PROGRAMS
Our alliances with renowned institutions and healthcare organizations across the globe provide unparalleled opportunities for student and faculty exchanges. Through these programs, students gain international exposure and experience diverse healthcare systems, which helps broaden their perspectives and skills. Faculty exchange programs allow educators to share knowledge, teaching practices, and clinical expertise, fostering academic innovation.

DHBW, GERMANY AND CHITKARA UNIVERSITY, INDIA VIRTUAL PROJECT COLLABORATION- 2023-24:

The virtual project collaboration between DHBW and Chitkara University emerged as a significant outcome of the 13th Global
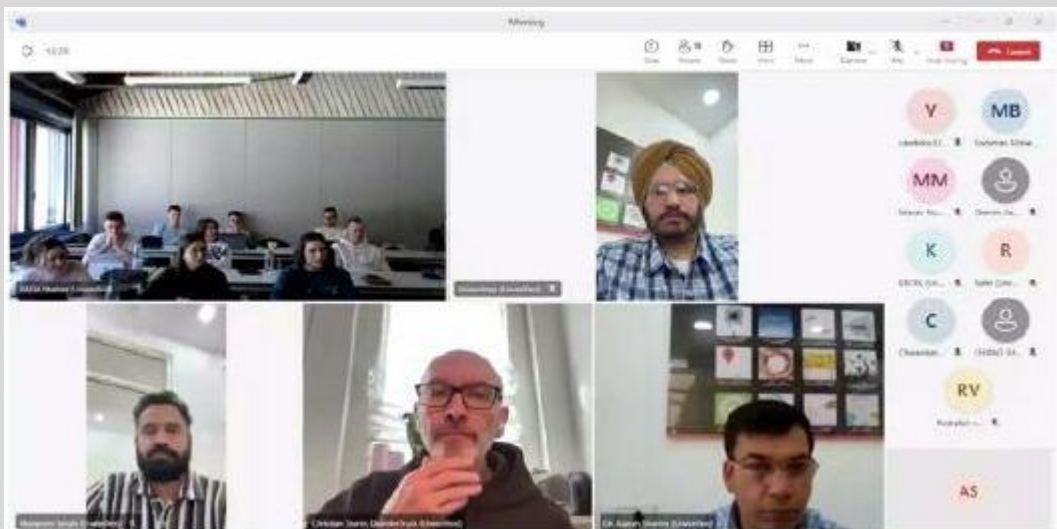
Week (October 16th-20th, 2023), demonstrating the strength of international teamwork in a digital setting. This event brought together students and faculty from various backgrounds, promoting cultural exchange and innovation.

The projects aimed to develop sustainable solutions for urban development in underserved communities, blending cultural and technical perspectives. The DHBW initiative illustrated how virtual platforms can enhance learning and equip participants for a globalized workforce, emphasizing the importance of collaboration in today's interconnected world.

VISIT OF DELEGATES FROM GRIFFITH UNIVERSITY, AUSTRALIA:

The Office of International Affairs at Chitkara University recently hosted an impactful visit from Griffith University, Australia. Key areas for potential research collaboration were identified, including mental health, quality use of medicines, evidence-based medicine, patient quality of life, pharmacoeconomic analysis, metabolomics, pharmacovigilance, and the management of chronic diseases. These promising research avenues are expected to foster impactful projects and enhance global cooperation in education, enriching the academic experience for Chitkara University students.

COLLABORATION WITH NGOs

The collaboration between Chitkara University and various NGOs reflects a shared commitment to community development, social responsibility, and impactful change. This partnership leverages the expertise and resources of the university with the grassroots reach of NGOs to address critical societal issues, including health, education, gender equality, and environmental sustainability.

CHITKARA UNIVERSITY WITH YUVSATTA, (YOUTH FOR PEACE)

Yuvsatta (youth for peace) in support of Chitkara University and in close coordination with 'Girls Parliament of schools of the city', CCPCR-Chandigarh Commission for Protection of Child Rights and Piccadily Square, organized a unique two days long 'Close the Gap Exhibition of 500 cloth paintings on Girls Rights'.. The event was a powerful reminder of the importance of empowering girls and ensuring equal opportunities. We are proud to be contributing to a noble cause.

School of Health Sciences, Nursing, and Pharmacy are proud to foster meaningful collaborations with local, national, and international stakeholders. These partnerships play a pivotal role in enhancing education, research, and clinical practice, ensuring our students and faculty are well-prepared for the ever-evolving healthcare landscape. The NGOs that deserve a special mention in this year are -

Sehyog Halfway Home, Rajpura
Prabh Aasra (Home for Helpless)
SOREM Special School, Chandigarh

AWARDS

We are proud of our efforts towards sustainability and would like to showcase our achievements in the next few pages. These are results of the hard work and teamwork by all the stakeholders of **CHITKARA UNIVERSITY** *towards creating a better world for all of us to live in!!*

CHITKARA UNIVERSITY

RISING to PROMINENCE
Times Higher Education Impact Rankings 2024

6TH
IN INDIA &
201-300 BAND GLOBALLY
SDG9
INDUSTRY, INNOVATION
AND INFRASTRUCTURE
Times Higher Education Impact Rankings 2024

13TH
IN INDIA
(OVERALL RANKING)

20TH
IN INDIA &
401-608 BAND GLOBALLY
SDG17 PARTNERSHIPS
FOR THE GOALS.
Times Higher Education Impact Rankings 2024

12TH
IN INDIA &
101-200 BAND GLOBALLY
SDG7
AFFORDABLE AND
CLEAN ENERGY
Times Higher Education Impact Rankings 2024

CHITKARA UNIVERSITY
Ranked
in overall performance for Social Impact

QS WORLD UNIVERSITY RANKINGS SUSTAINABILITY RANKINGS 2024
CHITKARA UNIVERSITY
Ranked
in Environmental Research

QS WORLD UNIVERSITY RANKINGS SUSTAINABILITY RANKINGS 2024
CHITKARA UNIVERSITY
#131
in Environmental Sustainability

QS WORLD UNIVERSITY RANKINGS SUSTAINABILITY RANKINGS 2024
CHITKARA UNIVERSITY
Ranked
in Environmental Education

QS World University Rankings: Sustainability 2024
Chitkara University
India

QS WORLD UNIVERSITY RANKINGS SUSTAINABILITY RANKINGS 2024
CHITKARA UNIVERSITY
#798
in Knowledge Exchange

QS WORLD UNIVERSITY RANKINGS SUSTAINABILITY RANKINGS 2024
CHITKARA UNIVERSITY
Ranked
in Health & Wellbeing

QS WORLD UNIVERSITY RANKINGS SUSTAINABILITY RANKINGS 2024
CHITKARA UNIVERSITY
Ranked
in Impact of Education

SURYA CHEMICALS
TO WHOMSOEVER IT MAY CONCERN

QS WORLD UNIVERSITY RANKINGS SUSTAINABILITY RANKINGS 2024
CHITKARA UNIVERSITY
#528
in overall performance for Governance

Water Sustainability Awards 2023-24
Certificate of Best Initiative
Category : Innovation in Water Technology
Presented to
Chitkara University

SUSTAINABLE INSTITUTIONS OF INDIA GREEN RANKINGS 2024
Certificate of Excellence
IN PURSUIT OF EXCELLENCE TOWARDS PRACTICING SUSTAINABLE
EDUCATION, THIS CERTIFICATE IS AWARDED TO
CHITKARA UNIVERSITY, PUNJAB
Institutional Band / Category : Diamond
World Institutional RANKING
Executive President

WINNER
WATER SUSTAINABILITY AWARDS 2013-24

QS WORLD UNIVERSITY RANKINGS SUSTAINABILITY RANKINGS 2024
CHITKARA UNIVERSITY
#870
in overall performance for Environmental Impact

TAKING RAPID GLOBAL STRIDES

RANKED			
10 IN INDIA INTERNATIONAL FACULTY & STUDENTS	18 IN INDIA FACULTY STUDENT RATIO	24 IN INDIA EMPLOYER REPUTATION	25 IN INDIA SUSTAINABILITY
31 IN INDIA INTERNATIONAL RESEARCH NETWORK	34 IN INDIA ACADEMIC REPUTATION	41 IN INDIA EMPLOYMENT OUTCOMES	43 IN INDIA CITATIONS PER FACULTY

QS WORLD UNIVERSITY RANKINGS 2025

CHITKARA UNIVERSITY

This report was prepared, compiled & designed by

Sqn Ldr (Dr) Rina Angel
Vice President -Office of Infrastructure Enhancement
Chairperson, Centre of Excellence for Sustainability
Chitkara University, Punjab, India

Mr. Mohit Kumar
Sustainability Manager
Centre of Excellence for Sustainability
Chitkara University, Punjab, India

Dr K K Mishra
Pro Vice Chancellor (Quality Assurance)
Chitkara University, Punjab, India

Dr. Atul Garg
Associate Director-(IQAC)
Chitkara University, Punjab, India

Our New Green Building - Rockefeller Block

CHITKARA UNIVERSITY
Chandigarh- Patiala National Highway (NH 64)
Rajpura, Punjab, India 140401