



**CAREER POINT  
UNIVERSITY**

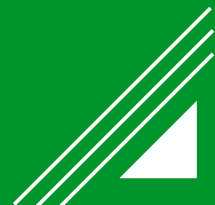


**3** GOOD HEALTH  
AND WELL-BEING



## **GOOD HEALTH & WELL-BEING**

Ensuring healthy lives & promoting well-being at all ages is essential to sustainable development



## **SDG 3- Good Health and Well-Being**

**Sustainable Development Goal 3 (SDG 3)** focuses on ensuring **healthy lives and promoting well-being for all at all ages**.

Career Point University aligns with this goal by maintaining a **healthy, safe, and supportive campus environment** for students, faculty, and staff. The university promotes both **physical and mental wellness** through regular health check-up camps, blood-donation drives, fitness and sports activities, and counselling sessions on stress management and emotional well-being.

CPU's **Medical Centre**, clean campus, and focus on hygiene and nutrition reflect its commitment to preventive healthcare. Academic programs such as **Drug Design and Development, Developmental Biology**, and **Human Resource Development** incorporate health-related knowledge and scientific understanding.

Through its **NSS and NCC outreach**, CPU organizes awareness campaigns in nearby communities on public health, hygiene, and disease prevention-extending its responsibility beyond the campus. By integrating education, awareness, and action, Career Point University actively contributes to **SDG 3-Good Health and Well-Being**, ensuring holistic development and a healthier society.

## **Health Partnerships and Collaborative Well-being Initiatives**

Career Point University (CPU) advances SDG 3: Good Health and Well-Being through strategic collaborations with local, national, and international health institutions that strengthen healthcare education, awareness, and community outreach

Local partnerships with Kota Heart Group of Hospitals and Lokhith Healthcare Pvt. Ltd. enhance clinical training, preventive health initiatives, community health services, and research. National collaborations with ISF College of Pharmacy, IIHSG, and Vertus Foundation promote joint research, health awareness, and capacity building in preventive care and public health. The international tie-up with INTI International University, Malaysia, integrates global learning in Health Sciences. These alliances support health camps, blood donation drives, physiotherapy consultations, and awareness programs, fostering improved healthcare accessibility, research innovation, health education and community well-being.

## **Community Health and Well-being Outreach Programs**

Career Point University actively promotes SDG 3 through diverse outreach programmes and student-led initiatives improving community health and well-being. Key activities include blood donation and free health check-up camps in collaboration with local health societies, cancer awareness programmes advocating early detection and emotional support, and sociological health surveys in rural villages identifying healthcare access gaps. The University fosters physical fitness and teamwork via sports festivals (Khelotsav, inter-house competitions) and wellness programs like Workplace Ergonomic and Postural Awareness workshops. Through World Pharmacist Day, community pharmacy sessions, and entrepreneurship workshops, students engage with public health and healthcare innovation.

These initiatives integrate education, volunteerism, and social responsibility to strengthen community well-being and align CPU's mission with SDG 3.

### **Community Access to Sports Facilities**

Career Point University (CPU) promotes SDG 3: Good Health and Well-Being by integrating physical fitness, inclusivity, and community engagement into campus life. The University's extensive sports facilities—including football and cricket grounds, basketball, volleyball, badminton and tennis courts, indoor games, and a gymnasium—are open to students, staff, local schools, and community groups with free access upon prior booking. Through inter-college tournaments, fitness drives, and community sports programs, CPU encourages active living, teamwork, and social well-being. These initiatives foster a culture of health, discipline, and shared responsibility while strengthening community ties and contributing to SDG Target 3.4 on promoting healthy lifestyles and reducing health risks through physical activity.

### **Student Sexual and Reproductive Health Services**

Career Point University, Kota promotes SDG 3: Good Health and Well-Being by providing comprehensive sexual and reproductive healthcare services to ensure students' physical, mental, and emotional wellness. The University offers counselling on contraception, menstrual and mental health, preventive care through immunisation and nutrition guidance, and curative services for RTIs, STIs, and sexual abuse management. Referral linkages to HIV counselling, testing centres, and hospitals further strengthen access to specialised care. Through community outreach and use of digital resources like *ARSH for You* and *Sneha AI*, the University ensures a safe, confidential, and supportive environment, advancing holistic student well-being in line with SDG 3 targets on universal health and reproductive care.

## **Comprehensive Mental Health Support for Students and Staff**

Career Point University, Kota has an established Mental Health Support Body under its Mental Wellbeing, Accessibility and Promotion Policy, aligned with the Mental Healthcare Act, 2017 and the goals of SDG 3: Good Health and Well-Being. This body provides counselling and guidance services, awareness programs, and referral support through trained professionals to ensure timely and confidential assistance for students, faculty, and staff. It actively works to reduce stigma, promote emotional resilience, and enhance access to mental health care across the campus. By fostering a safe, inclusive, and empathetic environment, the University ensures that mental well-being remains a core part of its health initiatives, contributing directly to SDG 3 targets on mental health promotion and universal well-being.

## **Smoke-Free Campus Policy**

Career Point University, Kota has a comprehensive Smoke-Free Policy in line with the Prohibition of Smoking in Public Places Rules, 2008, supporting the goals of SDG 3: Good Health and Well-Being. The University strictly prohibits smoking and use of tobacco products in all academic, residential, and recreational areas, including hostels, cafeterias, playgrounds, and University vehicles. No designated smoking zones are permitted, ensuring a completely tobacco-free campus. Violations attract fines and disciplinary action. Alongside enforcement, the University conducts awareness and health education programs on the dangers of smoking and substance abuse, promoting a culture of wellness and responsibility. Through this policy, CPU demonstrates its commitment to creating a healthy, safe, and smoke-free environment, contributing directly to SDG 3 targets on reducing illness and promoting public health.

## Academic Contributions through Courses

**Sustainable Development Goal 3 (SDG 3)** aims to “ensure healthy lives and promote well-being for all at all ages.” Health is a fundamental human right and a critical factor for sustainable development. SDG 3 focuses on reducing mortality rates, combating diseases, improving mental health, ensuring access to healthcare services, and promoting healthy lifestyles. Achieving this goal contributes directly to the overall social and economic development of a nation by enhancing the productivity and quality of life of its population.

Academic programs play a crucial role in supporting SDG 3 by equipping students with knowledge, skills, and practical experience to address health challenges, promote well-being, and contribute to healthcare innovations. Institutions can integrate SDG 3 into their curricula through specialized courses, research projects, and community engagement initiatives.

### List of Courses

Sr. No	Course Code	Course Name
1	BPL402	Industrial Pharmacy – II Theory
2	BPL304	Pharmacognosy & Phytochemistry - II
3	BPL303	Pharmacology - II
4	BPL305	Pharmaceutical Jurisprudence
5	BPP304	Pharmacognosy & Phytochemistry – II Practical
6	BPP303	Pharmacology – II Practical
7	BPL103	Pharmaceutics I
8	BPL102	Pharmaceutical Analysis I
9	BPL104	Pharmaceutical Inorganic Chemistry
10	BPP102	Pharmaceutical Analysis I-Practical
11	BPP103	Pharmaceutics I - Practical
12	BPP104	Pharmaceutical Inorganic Chemistry - Practical
13	BPP101	Human Anatomy & Physiology - I Practical
14	BPL203	Pharmaceutical Microbiology
15	BPL204	Pharmaceutical Engineering
16	BPL202	Physical Pharmaceutics I
17	BPL201	Pharmaceutical Organic Chemistry II
18	BPP203	Pharmaceutical Microbiology Practical
19	BPP204	Pharmaceutical Engineering Practical
20	BPP202	Physical Pharmaceutics I Practical
21	BPP201	Pharmaceutical Organic Chemistry II Practical
22	BPL302	Industrial Pharmacy - I
23	BPP302	Industrial Pharmacy – I Practical

24	BPL403	Pharmacy Practice – Theory
25	ZOL602	Mammalian Physiology-I
26	PTL504	Basic of Physiotherapy
27	PTL507	Human Physiology - I
28	MPH103T	Pharmaceutical Regulatory Affair
29	MPA101T	Modern Pharmaceutical Analytical Techniques
30	MPH102T	Modern Pharmaceutics
31	MPL101T	Advanced Pharmacology-I
32	MPL103T	Cellular and Molecular Pharmacology
33	MPL104P	Pharmacology Practical I
34	BOL814	Plant Physiology and Biochemistry
35	ZOL812	Biochemistry and Biotechniques
36	ARL972	Principles and Practices of Organic Farming
37	ARL973	Agronomy of Oilseeds, Fiber and Sugar Crops
38	ARL951	Agronomy of Major Cereals and Pulses
39	MNDL601	Community and Public Health Nutrition
40	MCHL-602	Advance Pharmacology
41	SYL802	Physiological Psychology
42	SYL803	Developmental Psychology
43	PUL901	Fundamentals of Public Health
44	PUL902	Human Biology and Public Health Chemistry
45	PTP906	Physiotherapeutics-1
46	PTL934	Physiotherapy in Neurological Disorders
47	PTL935	Physiotherapy in Neurosurgical Disorders
48	PTL938	Fundamentals in Sports
49	PTP933	Practical in Sports Rehabilitation- I
50	SYL501	Introduction to Psychology
51	SYL601	Statistics in Psychology
52	SML526	Hospital And Health System
53	SML885	Hospital Planning and Facility Management
54	PUL904	Medical and Health Statistics
55	PUL905	Research Methods in Public Health
56	PUL906	Health Psychology, Communication & Counselling
57	PTL903	Basic Exercise Physiology & Prescription
58	PTL936	Physiotherapy in Paediatric Neurological Disorder
59	PTL939	Applied Exercise Physiology
60	PRL995	Pharmacy
61	PTL998	Physiotherapy
62	SYL997	Psychology

63	BPL314	Biopharmaceutics & Pharmacokinetics
64	BPL112	Pharmaceutical Organic Chemistry I
65	BPL114	Pathophysiology
66	BPL111	Human Anatomy & Physiology II
67	BPL116	Computer Applications in Pharmacy
68	BPP112	Pharmaceutical Organic Chemistry - I Practical
69	BPP111	Human Anatomy & Physiology II - Practical
70	BPP116	Computer Applications in Pharmacy - Practical
71	BPL215	Pharmacognosy & Phytochemistry – I
72	BPL213	Physical Pharmaceutics – II
73	BPL211	Pharmaceutical Organic Chemistry – III
74	BPL214	Pharmacology – I
75	BPP215	Pharmacognosy & Phytochemistry – I Practical
76	BPP213	Physical Pharmaceutics – II Practical
77	BPP214	Pharmacology – I Practical
78	BPL313	Herbal Drug Technology
79	BPL316	Pharmaceutical Quality Assurance
80	BPL312	Pharmacology-III
81	BPL315	Pharmaceutical Biotechnology
82	BPP312	Pharmacology-III Practical
83	BPL412	Social and Preventive Pharmacy – Theory
84	ZOL604	Mammalian Physiology-II
85	EAV609	Yoga and Positive Psychology for Career and Life Skill Management
86	PTL613	Community Medicine
87	PTL517	Human Physiology -II
88	MPH201T	Molecular Pharmaceutics(Nano Tech and Targeted DDS
89	MPH202T	Advanced Biopharmaceutics & Pharmacokinetics
90	MPL201T	Advanced Pharmacology II
91	MPL204T	Clinical Research & Pharmacovigilance
92	MPL205P	Experimental Pharmacology Practical - II
93	ZOL816	Comparative Physiology.
94	MPH104P/MPH205P	Pharmaceutics Practical I
95	MPL102T/MPL202T	Pharmacological and Toxicological Screening Method
96	MNDL-512	Physiological Aspects of Nutrition
97	MNDL-513	Diet in Disease - II
98	MNDP-514	Diet in Disease - II Practical
99	MNDL611	Diet Counselling
100	SYL951	Positive Psychology and well being

101	PUL923	Public Health Policy and Planning
102	PUL924/BHL305	Public Health Nutrition
103	PUP921	Field Study of Public Health Programmes
104	PTL949	Sports Psychology, Exercise and Nutrition
105	PTP943	Practical in Sports Rehabilitation- II
106	SYL 602	Applied Social Psychology
107	SML626	Hospital Support & Utility Services
108	PTL614	Sports & Fitness
109	PTL515	General and Clinical Psychology
110	BOL911	Plant Biotechnology and Resource Utilization
111	SML888	Management of Clinical and Support Services
112	SML889	Health Policy and Health Care Delivery System
113	PTL923	Advance Physiotherapeutic
114	PTL951	Rehabilitation in Sports
115	PTL952	Sports Specific Sciences
116	ZOL031-II	Mammalian Physiology & Immunology-[Zoology-III]
117	BOT031-I	Plant Physiology & Biochemistry -[Botany-III]
118	BOT031-III	Biotechnology & Utilization of Plants-[Botany-III]
119	PTL401	Physiotherapy In Medical Conditions
120	PTL402	Physiotherapy In Surgical Conditions & Women's Health
121	PTL403	Physiotherapy In Musculoskeletal Conditions
122	PTL405	Physiotherapy In Neurological Conditions
123	PTP403	Physiotherapy In Musculoskeletal Conditions (Practical)
124	PTP405	Physiotherapy In Neurological Conditions (Practical)
125	BAPSYL302	Industrial/Organizational Psychology
126	BAPSYP300	Practical Psychology

## Academic Contributions through Activities

Academic contributions to SDG 3 through activities involve organizing programs, workshops, campaigns, and practical projects that address public health challenges. These activities foster knowledge application, community engagement, and skill development, enabling students and faculty to contribute to healthier societies.

### List of Activities

Sr. No	Activity Description	Coordinator	Date of Activity
1	Blood Donation Camp in collaboration of Kota Blood Bank Society	Mr. Dheerendra Kumar & NCC	15-Jan-2024
2	Cancer Awareness Program on the occasion of World Cancer Day	Dr. Pushpendra Yaduvanshi & NSS	05-Feb-2024
3	Society and Well-being - Sociological Survey	Dr. Reeta Saxena	21-Feb-2024
4	Annual Sports Fest "Khelotsav'24	Mr. Arshad Hussain	04-07 Mar-2024
5	Blood Donation Camp	Dr. Pushpendra Yaduvanshi	27-Mar-2024
6	Singing Activity "Unlock Your Sur"	Dr. Anita Singh	14-Aug-2024
7	Vocal Vibes -A Musical Extrawaganza	Dr.Anita Singh	23-Aug-2024
8	Fun Game for Newcomers	Mr. Arshad Hussain	24-Aug-2024
9	New Horizons in Community Pharmacy	Dr. Abhishek Nagar	31-Aug-2024
10	Inter House Indoor Sports Competitions	Mr. Arshad Hussain	18-Sep-2024
11	World Pharmacist Day 2024	Dr. Girish Vyas	25-Sep-2024
12	Rhythm	Dr.Anita Singh	16-Oct-2024
13	White Coat Ceremony (Batch 2024)	Dr Sonakshi Sahgal	19-Oct-2024
14	Inter House Sports Competition	Mr. Arshad Hussain	23-Oct-2024
15	Pharmacy Entrepreneurship: Keys to Opening a successful pharmacy retail business in healthcare	Ms. Kavita Vijay	2-Dec-2024
16	"Pharmacy entrepreneurship: Keys to opening and managing successful Retail business in healthcare"	Ms. Kavita Vijay	2-Dec-2024
17	Workplace Ergonomic Program for Postural Awareness	Dr. Nidhi Rawat	3-Dec-2024

## Blood Donation Camp in collaboration of Kota Blood Bank Society

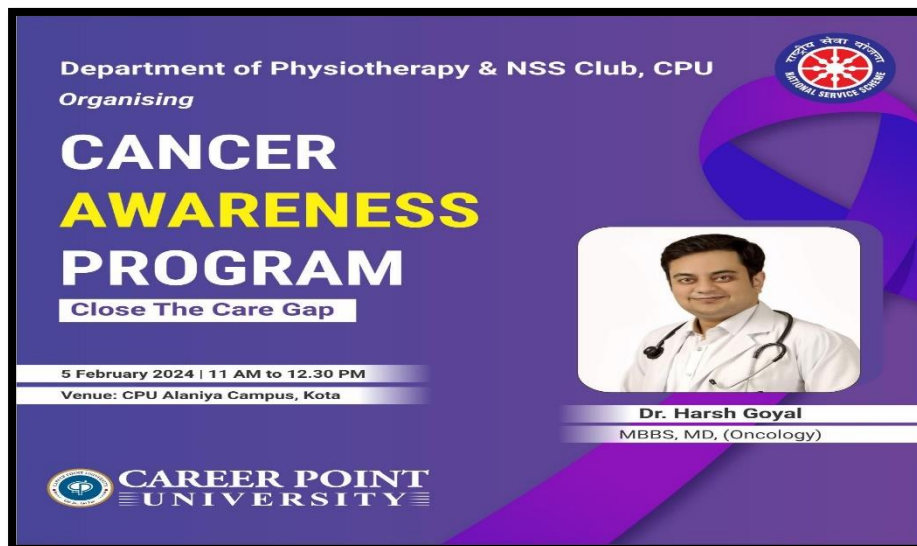
On Army Day 14 Raj NCC BN organized a blood donation camp with the support of “Kota Blood Bank society” With the aim to collect blood donations, raise awareness about the significance of donating blood. University NCC cadets not only contribute to saving lives but also learn the value of altruism and social responsibility.



## Cancer Awareness Program

A cancer awareness program was organized to highlight the rising global burden of cancer, which causes nearly 10 million deaths annually, despite one-third of cases being preventable. The event began with an inaugural and lamp-lighting ceremony graced by **Dr. Harsh Goyal** and faculty members. In his keynote address, Dr. Goyal emphasized the need to **bridge the care gap in cancer management**.

Subsequent sessions focused on **raising awareness** about cancer types, prevalence, and impact, and the **role of physiotherapy** in improving patients' quality of life. The **NSS Club** facilitated discussions on **empathy and emotional support** for cancer patients. The program also featured **interactive workshops, awareness drives, and campaigns** promoting **cancer prevention, early detection, and available support services**.




Department of Physiotherapy & NSS Club, CPU  
Organising


# CANCER AWARENESS PROGRAM


Close The Care Gap

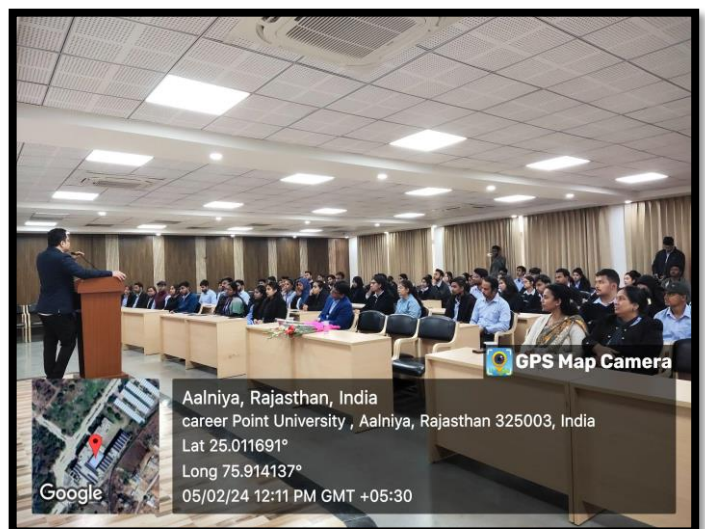
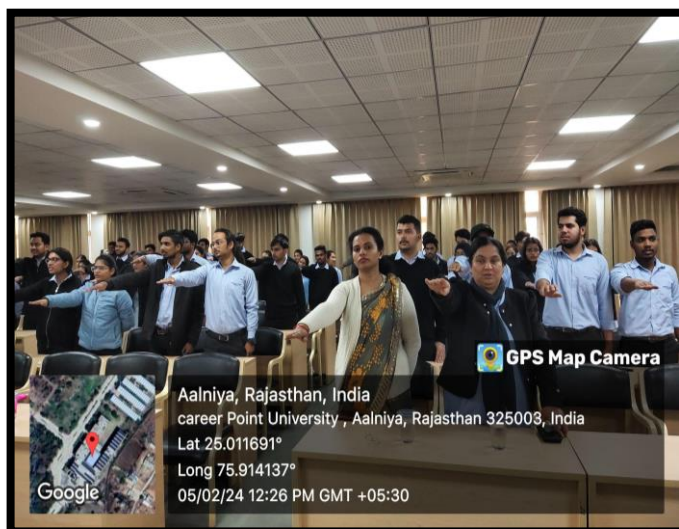
5 February 2024 | 11 AM to 12.30 PM  
Venue: CPU Alaniya Campus, Kota



**Dr. Harsh Goyal**  
MBBS, MD, (Oncology)

 **CAREER POINT UNIVERSITY**





## Society and Well-being: Understanding Medical Issues through a Sociological Lens in Kasar and Alaniya Villages

This survey focused on understanding the unique healthcare challenges faced by the rural populations of Kasar and Alaniya. It involved:

- **Data Collection:** Researchers will likely use questionnaires or interviews to gather information directly from community members about their experiences.
- **Focus Areas:** The survey explored issues like accessibility of healthcare facilities, availability of doctors and medicine, common health problems, affordability of care, traditional healthcare practices, and barriers to seeking medical help.
- **Outcome:** The goal is to generate a comprehensive picture of the medical landscape in these villages, ultimately aiding in identifying gaps in services and finding targeted solutions to improve healthcare.



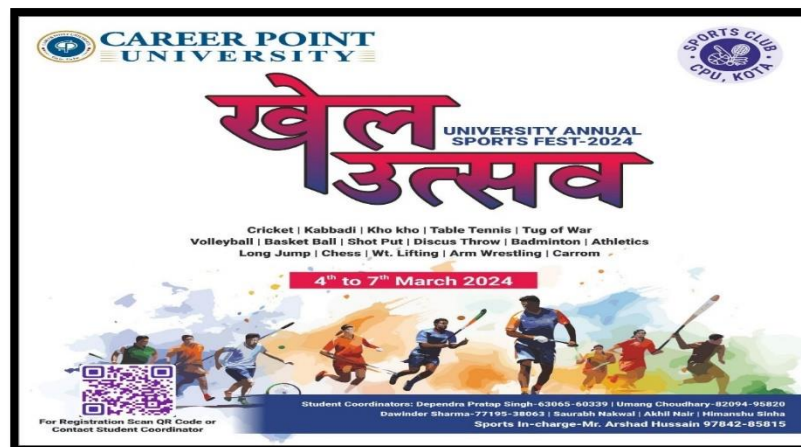
## Annual Sports Fest “Khelotsav’24”

Khelotsav’24 is a vibrant sports festival that celebrates athleticism, teamwork, and community spirit. It offers a diverse range of sporting events and activities, catering to participants of all ages and skill levels. From track and field competitions to team sports and traditional games, Khelotsav’24 provides a platform for individuals to showcase their talents, build camaraderie, and embrace the joy of sportsmanship. With a focus on inclusivity and fun, the festival brings together people from different backgrounds to engage in friendly competition and promote the values of health, fitness, and unity.

### Some different types of Games which were played during Khelotsav’24

- |               |                   |                         |
|---------------|-------------------|-------------------------|
| 1. Cricket    | 7. Badminton      | 13. Shot put            |
| 2. Kabaddi    | 8. Table Tennis   | 14. Long Jump           |
| 3. Volleyball | 9. Chess          | 15. Powerlifting        |
| 4. Basketball | 10. Carrom        | 16. Arm Lifting         |
| 5. Kho-Kho    | 11. Javelin Throw | 17. Athletics(100,1500) |
| 6. Tug of War | 12. Discus Throw  |                         |

The team with the highest total points or the most wins across different categories is declared the “**Karakoram House**” winner of the Khelotsav’24.

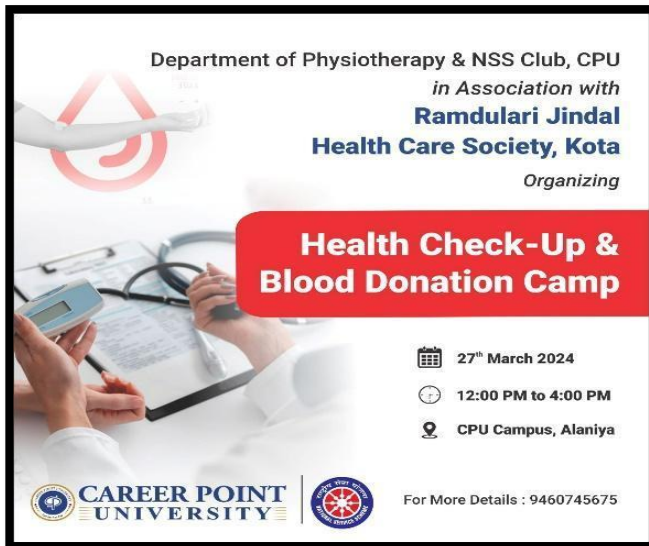


## Blood Donation Camp & Health Check-Up

Career Point University, Alaniya, Kota, organized a one-day blood donation and free consultation camp on 27th March 2024, led by Dr. Pushpendra Yaduvanshi from the Department of Physiotherapy. The event aimed to meet community healthcare needs and promote social responsibility.

The inaugural ceremony was graced by university dignitaries, including the Vice Chairperson, HOD Physiotherapy, and invited doctors. Vice Chancellor Dr. Sumer Singh attended as a special guest, along with medical experts from Dr. Ram Dulari Jindal Health Care Society-Dr. Onkar Singh, Dr. Deepak Mittal, Dr. Shefali, and Dr. Brijesh -whose participation added value to the initiative.

A key highlight was the blood donation drive, where 52 units of blood were collected, reflecting strong community participation and compassion. The camp not only contributed to replenishing vital blood reserves but also fostered health awareness about health, empathy, and collective well-being.



Department of Physiotherapy & NSS Club, CPU  
in Association with  
**Ramdulari Jindal  
Health Care Society, Kota**  
Organizing

**Health Check-Up &  
Blood Donation Camp**

27<sup>th</sup> March 2024  
12:00 PM to 4:00 PM  
CPU Campus, Alaniya

**CAREER POINT  
UNIVERSITY**

For More Details : 9460745675



कोटा न्यूज नेटवर्क कोटा बुधवार 28 मार्च 2024

### सीपीयू में रक्तदान व निशुल्क स्वास्थ्य जांच परामर्श शिविर का आयोजन

करियर पॉइंट यूनिवर्सिटी के फिजियोथेरेपी विभाग व NSS क्लब द्वारा रक्तदान एवं निशुल्क स्वास्थ्य जांच परामर्श शिविर का आयोजन किया गया। सीपीयू के फिजियोथेरेपी विभागाध्यक्ष डॉ. पुष्पेन्द्र यदुवंशी ने बताया कि शिविर में रामदुलारी जिनदल हेल्थ केयर सोसाइटी की टीम का विशेष सहयोग रहा। इस अवसर पर करियर पॉइंट यूनिवर्सिटी के वाइस चांसलर डॉ. सुमेर सिंह, विशेष अतिथि के रूप में उपस्थित रहे साथ ही रामदुलारी जिनदल हेल्थ केयर सोसाइटी की टीम से डॉ. ओंकार सिंह, डॉ. दीपक मिश्र, डॉ. शेफाली, और डॉ. बृजेश उपस्थित रहे। रक्तदान शिविर में यूनिवर्सिटी की टीम के साथ-साथ छात्रों-छात्राओं ने भी बढ़ चढ़ कर हिस्सा लिया। रक्तदान शिविर में 52 यूनिट रक्तदान किया गया। यूनिवर्सिटी के वाइस चांसलर डॉ. सुमेर सिंह ने लोगों को रक्तदान करने के फायदे बताये व लोगों को रक्तदान करने हेतु प्रेरित किया। रक्तदान शिविर के साथ स्वास्थ्य जांच परामर्श शिविर का भी आयोजन हुआ जिसमें आस पास के ग्रामीण लोगों ने अपने स्वास्थ्य का निशुल्क जांच करवाया व डॉक्टर की टीम ने स्वास्थ्य सम्बन्धी उपाय बताये, कार्यक्रम के समापन पर पुष्पेन्द्र यदुवंशी ने सभी रक्तदाताओं, डॉक्टरों की टीम और स्टाफ को धन्यवाद ज्ञापित किया।



## Singing Activity “Unlock Your Sur”

The Unlock Your Sur Music Club Activity at Career Point University Kota is a dynamic initiative designed to inspire and cultivate musical talents within the student community. This club is a haven for music enthusiasts, providing a vibrant platform to explore the diverse realms of music, from classical and folk to contemporary and fusion.

The activity aims to unlock the creative potential of students by offering a series of workshops, interactive sessions, and live performances. The club not only encourages students to hone their musical skills but also fosters a spirit of collaboration and teamwork. By bringing together musicians from various backgrounds and skill levels, the club activity seeks to build a supportive and creative community where students can express themselves freely and learn from each other.



## Vocal Vibes-A Musical Extravaganza

Vocal Vibes-A Musical Extravaganza offers a platform for students, faculty, and community members to connect through music. Participants share stories, analyze songs, and explore the intersection of music and memory in a vibrant, inclusive environment.



## Fun Game for Newcomers

The Sports Club is thrilled to host a dynamic and engaging event designed to bring together students from all backgrounds for an afternoon of fun and friendly competition. This event features a variety of indoor games such as chess, carom, and badminton, providing an opportunity for students to showcase their strategic skills and agility. For those who enjoy outdoor sports, there will be exciting matches of tug of war, basketball, and volleyball, promoting teamwork, fitness, and healthy competition.

In addition to these games, several fun activities are planned to ensure everyone has a chance to participate, laugh, and make new connections. Whether you are an experienced player or a complete beginner, this event welcomes all skill levels. Our aim is to create a relaxed and enjoyable environment where students can unwind, interact, and build lasting friendships while embracing the spirit of sportsmanship.

Join us in celebrating unity, diversity, and the joy of sports as we come together for a memorable day full of energy and enthusiasm!



## New Horizons in Community Pharmacy

Community pharmacy is rapidly advancing with new technologies. **Telepharmacy** enables remote consultations and dispensing, while **digital health tools** like apps, wearables, and e-prescriptions enhance patient care. **Artificial intelligence** supports personalized medicine, and **automation** through robotics improves accuracy and efficiency in dispensing.

Recent **regulatory changes** highlight the need for compliance and quality standards. The adoption of **Good Pharmacy Practice (GPP)** ensures ethical and professional service delivery.

Evolving **business models** promote collaboration and patient-centered care. **Pharmacists** now work with other healthcare providers, run **pharmacy-based clinics**, and focus on **cost-effective healthcare** through pharmacoeconomics.

Despite **challenges** like workforce shortages and reimbursement issues, there are growing **opportunities** for pharmacists to expand their roles in primary care and public health. **Case studies** demonstrate innovative pharmacy practices, offering key **lessons** in adaptability, teamwork, and patient-focused service.

School of Pharmacy, CPU Kota  
is organizing

Expert Lecture on ►

# NEW HORIZONS IN COMMUNITY PHARMACY

📅 31st August 2024  
🕒 10:00 AM Onwards  
Mode: Online through ZOOM

**Mr. Mahadev Bhat**  
Retired Clinical and Community Pharmacist, Walgreens, California, U.S.A.

Scan for Registration

**CAREER POINT UNIVERSITY**

Registration Fee and E-certificates Will be Provided to All Participants.



## Inter House Indoor Sports Competition

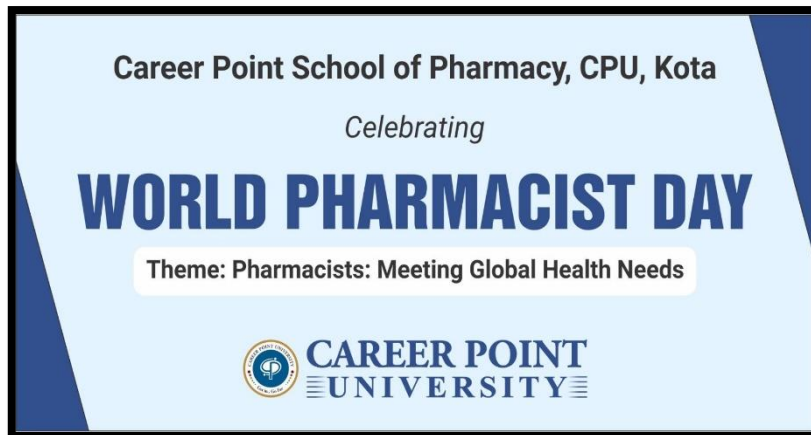
The **Inter-House Indoor Sports Competition**, organized by the Sports Club of Career Point University, is a dynamic event designed to promote sportsmanship, teamwork, and physical fitness. Scheduled for **18th September 2024**, from **1:00 PM to 4:00 PM** at the **Indoor Sports Complex, CPU**, the competition includes engaging indoor games such as **Chess, Carom, Table Tennis, and Badminton**.

This event offers students a platform to demonstrate their skills, strategy, and competitive spirit while fostering camaraderie and house pride. It serves as a great opportunity for participants to challenge themselves, enjoy healthy competition, and create unforgettable memories.



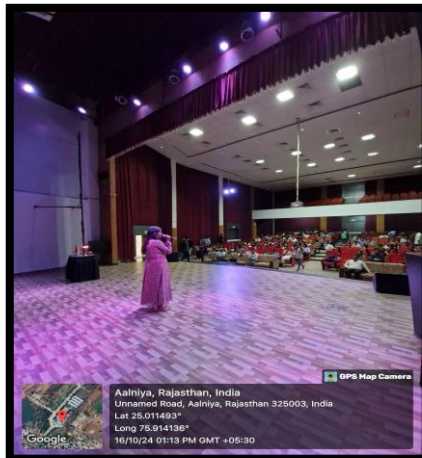
## World Pharmacist Day 2024

The World Pharmacist Day 2024 event, themed "Pharmacist: Meeting Global Health Needs," was held on 25th September. It featured a guest lecture by Dr. Sandeep Kailey, Drug Control Officer, Jhalawar, and Mr. Manish Agrawal, Manager, Regulatory Affairs at Ferring Pharmaceuticals, Hyderabad. The event included a drama performance by students on pharmacy variations, a knowledge-based question game on general pharmacy and OTC medications, and a short address by the Dean of Pharmacy on the significance of the day. The event highlighted the essential role of pharmacists in global healthcare, with 200 students in attendance.



## Rhythm Music Club activity

The Rhythm Music Club at Career Point University, Kota, is a vibrant student-driven initiative that nurtures musical talent and creativity. The club provides a platform for students to engage in various musical activities, including singing, instrumental performances, and music composition. It regularly hosts workshops, competitions, and collaborative performances, offering opportunities for students to develop their skills, perform in public, and appreciate diverse musical genres. Rhythm plays an integral role in campus life, enhancing cultural engagement and fostering a sense of community through music.



## White Coat Ceremony (Batch 2024)

The White Coat Ceremony is a formal event where medical students receive their first white coats, symbolizing their transition to clinical training. It emphasizes professionalism, ethics, and compassionate care. The ceremony fosters a sense of responsibility, marking a pivotal step in their journey toward becoming healthcare providers.



### व्हाइट कोट सेरेमनी पहनने की शपथ ली

कोटा 22 अक्टूबर । कैरियर पॉइंट यूनिवर्सिटी कोटा के फिजियोथेरेपी विभाग द्वारा व्हाइट कोट सेरेमनी का आयोजन किया गया । कार्यक्रम के मुख्य अतिथि मेडिकल कॉलेज कोटा एडिशनल प्रिंसिपल डॉ. नवीनत पाराशर , विशिष्ट अतिथि सीईओ कोटा हार्ट इंस्टीट्यूट दीपक कुलश्रेष्ठ और कोटा के फिजियोथेरेपिस्ट डॉ विनय गुलाटी के साथ विश्वविद्यालय के कुलपति समर सिंह उपस्थित रहे । कार्यक्रम की शुरुआत सरस्वती पूजन के साथ हुआ । फिजियोथेरेपी विभागाध्यक्ष डॉ. पुष्पेंद्र यदुवंशी ने व्हाइट कोट सेरेमनी की उपयोगिता बताते हुए पेशेवर की प्रतिज्ञा एवं रोगी की देखभाल के लिए समर्पण , सत्य , निष्ठा एवं करुणा मय बताया । कार्यक्रम के मुख्य अतिथि डॉ नवीन पाराशर ने व्हाइट कोट की विशेषता को संबोधित करते हुए कहा कि व्हाइट कोट शुद्धता एवं स्वच्छता का प्रतीक है जिसे पहनने के पश्चात डॉक्टर की उपलब्धता बढ़ाने के साथ-साथ डॉक्टर का व्यक्तित्व भी बढ़ जाता है। कार्यक्रम की उपयोगिता बढ़ाते हुए विशिष्ट अतिथि सीईओ दीपक कुलश्रेष्ठ एवं डॉ विनय गुलाटी ने व्हाइट कोट सेरेमनी के उत्साह को



बढ़ाया । कार्यक्रम में उपस्थित विश्वविद्यालय के कुलपति समर सिंह जी ने शपथ दिलाते हुए व्हाइट कोट सेरेमनी की उपयोगिता तथा फिजियोथेरेपी की विशेषताओं को अवगत कराते हुए छात्र-छात्राओं को संबोधित किया कि कैसे मरीज के साथ अपना समर्पण , सत्य , निष्ठा एवं नैतिकता के साथ करुणा और सहानुभूति प्रदान करनी होती है । कार्यक्रम की संयोजिका डॉ सोनाक्षी सहगल ने कार्यक्रम का समापन किया । कार्यक्रम में विभाग के छात्राएं मीनल, तन्वी एवं गुनगुन के साथ विभाग के डॉ दिव्या गंगवार एवं डॉ निधि रावत उपस्थित रहे ।


Department of Physiotherapy, CPU  
Proudly Present


# WHITE COAT CEREMONY

For 2024 Batch Students

Donning of the White Coats      Oath of Professionalism  
Pledge of Commitment to Patient Care

📅 19 October 2024  
🕒 02:00 PM Onwards  
📍 Seminar Hall, CPU

 **CAREER POINT UNIVERSITY**



## Inter House Sports Competition

The event is a dynamic sports and academic gathering featuring prominent speakers, including Dr. M. K. Gupta and Mr. Kamal Arora. Organized by Mr. Arshad Hussain, the event includes a mix of sports competitions, insightful sessions, and an award ceremony to recognize achievements, fostering a spirit of collaboration and skill development within the academic community.



## Pharmaceutical Entrepreneurship "From Vision to Victory: Building a Thriving Pharma Industry Business"

Department of pharmacy, School of health and allied sciences, CPU organized a 1-day Expert Talk on "Pharmaceutical Entrepreneurship "From Vision to Victory: Building a Thriving Pharma Industry Business" on Monday, 2nd December.2024 at Room no. A-302, CPU, Alaniya, Kota. The resource person for the Expert Talk was Mr. Anil Vyas (Chairman and Managing Director of the Mednext Group of Industries).

### Discussed points during session by expert are:

- Entrepreneurial Mindset: Developing critical thinking, risk-taking abilities, and problem-solving techniques for aspiring entrepreneurs.
- Market Research in the Pharmaceutical Sector: How to identify gaps in the market, conduct research.
- Legal and Financial Aspects of Starting a Pharmaceutical Business: Insights into regulatory requirements, funding sourcing.

**CAREER POINT UNIVERSITY**  
Presents  
**Technovation**

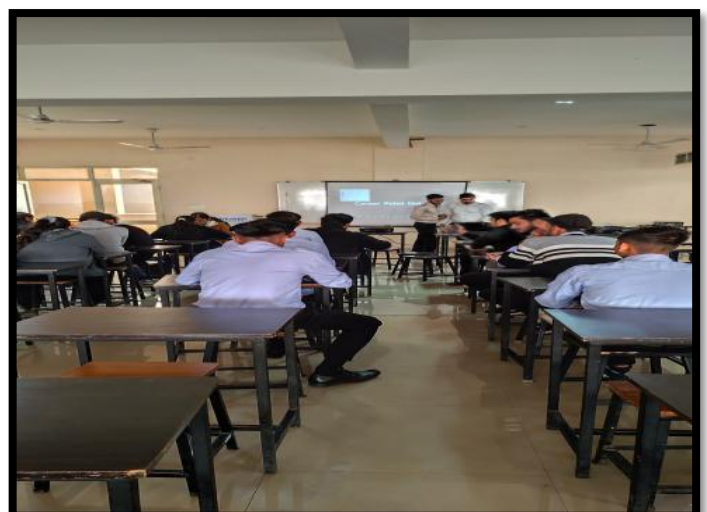
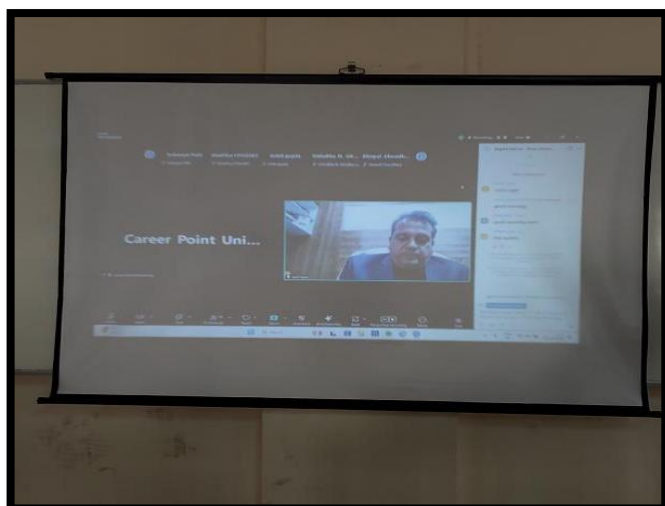
Department of Pharmacy,  
School of Health & Allied Sciences, CPU  
organising  
**EXPERT TALK**  
Pharmaceutical Entrepreneurship  
From Vision to Victory : Building a  
Thriving Pharma Industry Business

Expert- Mr. Anil K. Vyas  
(Founder of Mednext Pharma Pvt. Ltd.)

2nd December 2024 11:00 AM Onwards Auditorium, CPU

Register Here

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## "Pharmacy entrepreneurship: Keys to opening and managing successful Retail business in healthcare"

Department of Pharmacy, School of health and allied sciences, CPU organized a 1-day Workshop on "Pharmacy entrepreneurship: Keys to opening and managing successful Retail business in healthcare" on Monday, 2nd December.2024 at Auditorium, CPU, Alaniya Kota. The resource person was Mr. Krishna Nand Gupta (Owner of the retail store).

**Discussed points during session by expert:** An interactive session where students will explore Drug House Management-selection of site, space Layout and legal requirements. Importance and objectives of purchasing, selection of suppliers, price determination and legal requirements thereto. Handling of drug stores and other hospital supplies. Inventory Control methods, Inspection of drug inspector, inventory carrying cost, safety stock, minimum and maximum stock levels, economic order quantity, scrap and surplus disposal, Online Pharmacy Stores, Retail Pharmacy Chain etc.

Technovation

INSTITUTION'S INNOVATION COUNCIL

KNOWLEDGE CART

QUALITY ASSURED IQAC

Department of Pharmacy,  
School of Health & Allied Sciences, CPU

Organising

Workshop on

**PHARMACY ENTREPRENEURSHIP**

Keys to Opening and Managing Successful  
Retail Business in Healthcare

2nd December 2024

01:00 PM to 04:00 PM

Seminar Hall, CPU

CAREER POINT UNIVERSITY

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### प्रोजेक्ट एजीबिशन से लेकर फन गेम्स तक में दिखा उत्साह सीपीयू में टेक्नोवेशन 2024 का आयोजन

संदेश न्यून। कोटा, करियर पॉइंट यूनिवर्सिटी में दो दिन लॉन्गिग बिबीड क्लासरूम के नाम रहे। विद्यार्थियों ने अकेडमिक और टेक्निकल रिजल्ट्स को विभिन्न माइलस्टोन और रिसर्च पॉयंट के माध्यम से प्रदर्शित किया। वार्षिक साइन्स एवं टेक्नोलॉजी एजीबिशन और कॉम्प्यूटेशन टेक्नोवेशन में प्रोजेक्ट एजीबिशन बकशाप, एक्सपर्ट लेकर, रिसर्च पेपर, मूटकोर्ट कॉन्फरेंस से लेकर फूट, विजय और फन गेम्स तक का आयोजन किया गया।

चीफ कोर्डिनेटर अरुण शर्मा ने बताया कि टेक्नोवेशन-2024 मुख्यतया छह कार्यक्रमों प्रोजेक्ट एक्सपोज - साइंस और टेक्नोलॉजी पर आधारित प्रदर्शनी, रिसर्च स्पॉन्स - पेपर प्रेजेंटेशन, विच परफेक्ट-इनोवाटिव विजनेस प्लान कम्पटीशन, नॉलेज क्राफ्ट-बकशाप और एक्सपर्ट लेकर, मूट कोर्ट प्रतियोगिता तथा मास्टर शेफ प्रतियोगिता शामिल है। उन्होंने बताया कि इन छह मुख्य कार्यक्रमों के अलावा विद्यार्थियों के लिए फन गेम्स, टेक विजय, एंड मैड शो, फुड जॉन, सामाजिक चर्चा और मैसिंग कॉन्फरेंस भी आकर्षण रहे।

टेक्नोवेशन में दूसरे दिन प्रोजेक्ट एक्सपोज में छात्रों द्वारा तकनीक पर आधारित 82 प्रोजेक्ट्स प्रदर्शित किए गए। प्रथम पुरस्कार के रूप में आर्मीटी यूनिवर्सिटी के आदित्य राज टीम को 11000 रुपये का नकद पुरस्कार दिया गया। दूसरे स्थान पर सीपीयू की जहन्नी टीम 5100 और तृतीय पुरस्कार सीपीयू के कुशाय जैन टीम को 3100 दिया गया।

अंतर-विश्वविद्यालय मूट कोर्ट प्रतियोगिता में प्रथम पुरस्कार के रूप में 5100 रुपये, सगमन यूनिवर्सिटी के अभिनव जैन और रिया चौहान को दिया गया। द्वितीय पुरस्कार सीपीयू के अजा जैन और ज्योत्सना गुला को टीम को 3000 रुपये प्रदान किए गए। इसके साथ ही बेस्ट स्पीकर, बेस्ट रीसर्चर और बेस्ट मेमोरियल को 1000 रुपये प्रदान किए गए।

रिसर्च स्पॉन्स के अंतर्गत पेपर प्रेजेंट करने के लिए प्रथम पुरस्कार के रूप में 3100 रुपये बीसीए के अर्यन शर्मा और फार्मसी के नमिता नगर और अक्षय नेनवानी को दिए गए। द्वितीय पुरस्कार आर्ट्स के पून चन्द को 2100 रुपये और तृतीय पुरस्कार बीबीए के ओम सिंह को 1100 रुपये दिये गए।

## Workplace Ergonomic Program for Postural Awareness

The hands-on workshop aimed to focus on physical problems associated with workplace & daily living activities. There was a quiz competition conducted after completion of workshop and winners were awarded by certificates.



**CAREER POINT UNIVERSITY**  
Presents  
**Technovation**  
Department of Physiotherapy,  
School of Health & Allied Sciences, CPU  
organising  
**HANDS-ON  
PRACTICAL SESSION  
& EXPERT LECTURE**  
On Workplace Ergonomic Program for Postural Correction  
**Dr. Pushendra Yaduvanshi (PT, PhD)**  
Clinician & Ergonomic Expert, HOD Physiotherapy, CPU Kota  
03rd December 2024 09:00 AM Onwards Seminar Hall, CPU  
CAREER POINT UNIVERSITY INSTITUTION'S INNOVATION COUNCIL KNOWLEDGE CLUB  
Register Here



## Contributions through Research

Academic and institutional research under SDG 3 contributes to understanding the root causes of health issues and finding evidence-based strategies to improve human health. Interdisciplinary studies in fields such as **pharmacy, public health, environmental studies etc** are crucial in promoting innovations that enhance healthcare outcomes and preventive measures.

Research initiatives also promote the **development of new drugs, diagnostic tools, herbal formulations, and digital health technologies**. They support the integration of traditional and modern approaches to healthcare while emphasizing ethical standards and community welfare. By encouraging students and faculty to engage in research projects, universities contribute not only to scientific advancement but also to societal well-being.

## Journal Papers List

Sr. No.	Title	Authors	Journal Name	Year	ISSN No
1	Novel fluorinated thiazolidin-4-one derivatives: synthesis and anti-cancer potential against HepG2 and HCT116 cell lines	Rahul R. Bagul	Australian Journal of Chemistry	2024	1445-0038
2	Quantification Of Phytochemicals, Formulation, And Evaluation Of Phyllanthus Niruri Hydrogel For Treating Microbial Infections	Bulbul Kumari Dr. Mahesh Kumar Gupta	Educational Administration: Theory and Practice (Kuram ve uygulamada eğitim yönetimi)	2024	2148-2403
3	Pharmacological evaluation of antioxidant and hepatoprotective activity of polyherbal formulation of Euterpe oleracea and Zephyranthes citrina extract in wistar rats	Mr. Rajkumar Kumawat , Dr. Mahesh Kumar Gupta, Ms. Shreya Singh	International Journal of Food and Nutrition Sciences (IJFANS),	2024	2320-7876
4	Design and evaluation of vesicular emulsome containing gel for rheumatoid arthritis	Abhishek Kumar, Abhishek Nagar	African journal of biological science, (AFJBS)	2024	2663-2187
5	Formulation and evaluation of floating gastroretentive microspheres for gastric reflex disease	Rupanjali, Abhishek Nagar	African journal of biological science, (AFJBS)	2024	2663-2187
6	Phytochemical and anticancer studies of cinnamomum malabratrum	Shyambaran Singh, Dr. M.K. Gupta, Dr. Anand Goswami, Ms. Poonam Singh	African journal of biological science, (AFJBS)	2024	2663-2187
7	Colloidal silver nanoparticles stabilized with callisia repens plant extract in development of new formulation for burn and wound infection	Gyaneshwar Rao, M. K. Gupta , Rajkumari Thagele	African journal of biological science, (AFJBS)	2024	2663-2187
8	An efficient LC- MS/MS method for the trace level determination of 5-chloropyridine-2amine: A potential Genotoxic impurity in Etoricoxib active drug substance	Manoj Kumar Rathore, Dr. Rajkumari Thagele	African journal of biological science, (AFJBS)	2024	2663-2187

9	Challenges in Detecting Genotoxic Impurities in API Manufacturing	Manoj Kumar Rathore, Dr. Rajkumari Thagele	African journal of biological science, (AFJBS)	2024	2663-2187
10	Formulation and evaluation of microemulsion ba	Rajat Rai, M. K. Gupta ,Omkar Singh3	African journal of biological science, (AFJBS)	2024	2663-2187
11	Preparation and Evaluation of Drug Miconazole nitrate (Gel Form) for Topical Delivery with the help of Deep Eutectic Mixture	Avinash Kumar Jha, Dr. NitinNama, Dr. Harshita Jain	African journal of biological science, (AFJBS)	2024	2663-2187
12	Formulation and evaluation of plga nanoparticles for the treatment of alzheimer's disease	Harshender, Dr. M.K. Gupta	YMER is an International Open Access Journal	2024	0044-0477
13	Antidiabetic potential of eclipta angustata leaves in rats	Lucky Ali, Shreya Singh, M. K. Gupta	International Journal of Food and Nutrition Sciences (IJFANS),	2024	2320-7876
14	Development and characterization ofmicro sponge gel containing piperine foranti-bacterial	Mr. Ayush Sidhu, Dr. M.K. Gupta, Dr. Anjana Devi	Journal of Population Therapeutics & Clinical Pharmacology	2024	1864-1880
15	Nano-biotechnological approach for the ultrasensitive electrochemical and fluorescence detection of Staphylococcal enterotoxin B	Meenakshi, Saish Pawar, Brijesh Shivhare , Arun Sharma , Sudharshan Prabhu and Shikha Awasthi6	Materials Research Express	2025	2053-1591
16	AI-Powered Automated Detection of Cervical Cancer Using Deep Learning Techniques: A CNN and Transfer Learning Approach	Abid Hussain, Amit Sharma	Frontiers in AI and Computational Technologies , Springer Nature	2025	978-3-031-89960-7
17	Resveratrol as a Therapeutic Agent in Alzheimer's Disease: Evidence from Clinical Studies	Nidhi Puranik ,Meenakshi Kumari,Shraddha Tiwari,Thakur Dhakal ,Minseok Song	Nutrients MDPI Journal	2025	2072-6643

## Abstract of Journal Papers

### Novel fluorinated thiazolidin-4-one derivatives: synthesis and anti-cancer potential against HepG2 and HCT116 cell lines

#### Abstract

A novel synthetic route has been designed to introduce fluorine functionality into a series of compounds containing thiazolidin-4-one rings. These compounds were synthesised from various aniline derivatives using a two-step approach: an addition reaction of ethyl isothiocyanate with different aromatic fluorinated anilines, followed by cyclisation to yield the final products. A total of 15 novel fluorinated thiazolidinone compounds were synthesised and characterised using  $^1\text{H}$  NMR,  $^{19}\text{F}$  NMR, Fourier transform-infrared, elemental analysis and liquid chromatography-mass spectrometry. Stereochemistry around the imine bond in the synthesised derivatives was determined using nuclear Overhauser effect spectroscopy. The in vitro anticancer potential of the compounds was tested against two human cancer cell lines, liver (HepG2) and colon (HCT116). The study revealed that the derivatives having fluorine functionality at both the m-positions in the aromatic ring showed promising anticancer potential, as compared to those at o- and p-positions.

### Quantification of Phytochemicals, Formulation, And Evaluation of Phyllanthus Niruri Hydrogel for Treating Microbial Infections

#### Abstract

Phyllanthus Niruri, known for its medicinal properties, was studied for its phytochemical composition, hydrogel formulation, and therapeutic potential against microbial infections. This research aimed to quantify the active components using ethanol and methanol extracts and incorporate them into three different hydrogel formulations, designated F1, F2, and F3. The study assessed the hydrogels for pH viscosity, extrudability, and spreadability to determine their suitability for medical use. In vitro drug release was examined through first-order kinetic modeling, and the stability of each formulation was tested under varying conditions of temperature, humidity, and light exposure. Results showed significant presence of alkaloids, flavonoids, saponins, terpenoids, and steroids, with variations influenced by the solvent used. F3 emerged as the most effective formulation, offering the quickest drug release and highest ease of application, suitable for acute treatment scenarios. The hydrogels displayed good stability, maintaining their physical and chemical integrity over a six-month period under recommended storage conditions. This study validates the potential of Phyllanthus Niruri hydrogel as a viable alternative in microbial infection treatment, with implications for reducing antibiotic reliance. Keywords: Phyllanthus niruri, phytochemical analysis, hydrogel formulation, antimicrobial activity, natural remedies, herbal medicine, microbial infection treatment, medicinal plant extracts, bioactive compounds, pharmaceutical applications.

**Pharmacological evaluation of antioxidant and hepatoprotective activity of polyherbal formulation of Euterpe oleracea and Zephyranthes citrina extract in wistar rats**

**Abstract**

The aim provided seems to describe a pharmacological study evaluating the antioxidant and hepatoprotective properties of a polyherbal formulation containing extracts from Euterpe oleracea in Wistar rats. In pharmacological research, antioxidant activity refers to the ability of substances to neutralize harmful free radicals in the body, which can cause cellular damage and contribute to various diseases. Hepatoprotective activity, on the other hand, pertains to the ability of substances to protect the liver from damage or promote its healing. Polyherbal formulations combine multiple herbal extracts or ingredients, often aiming to synergistically enhance therapeutic effects. The study likely involved administering the polyherbal formulation to Wistar rats and assessing its effects on antioxidant parameters, such as levels of antioxidant enzymes or markers of oxidative stress, as well as its impact on liver health through measures like liver enzymes and histopathological examination.

**Design and evaluation of vesicular emulsome containing gel for rheumatoid arthritis**

**Abstract**

Rheumatoid arthritis (RA) is a chronic autoimmune disease affecting the joints, characterized by progressive symmetrical inflammation of the affected joints, leading to cartilage destruction, bone erosion and disability. Quercetin is one of the most important bioflavonoids known for its anti-inflammatory, anti-hypertensive, vasodilator, anti-obesity, anticholesterol and anti-atherosclerosis effects. The use of the drug is largely limited by its low hydrophilicity, so the present study improves its solubility by adding ethanol. Local use of high concentrations of ethanol is not recommended due to the risk of local irritation. Therefore, a suitable quercetin carrier for effective topical application is necessary for the treatment of rheumatoid arthritis. The use of quercetin is largely limited due to its low hydrophilicity. The aim of this study is to investigate the possible use of emulsomes to deliver quercetin in the treatment of rheumatoid arthritis. Emulsomes provide an effective topical drug delivery system due to the high retention flux and high skin retention of the drug, resulting in increased antifungal activity and reduced skin irritation. The characterization of the prepared emulsomes was performed using PDI index, zeta potential measurement, capture efficiency, etc. The pH, extrudability, dispersibility, roughness, viscosity, adhesion efficiency, etc. of the emulsome gel were checked. Emulsomes containing phosphatidylcholine (soy lecithin) cholesterol and or solid lipid were prepared and optimized for lipid ratios. The solubility of the drug in 0.1N HCl and phosphate buffer pH 7.4 was found to be 0.0276 and 0.0094 mg/ml in different solvent respectively. The results of gel formulation having pH range 7.2 to 7.8 are desirable to skin pH, since they do not interfere with the physiology of skin.

## **Formulation and evaluation of floating gastro retentive microspheres for gastric reflex disease**

### **Abstract**

A potentially effective method for boosting the bioavailability of medications with an absorption window in the upper small intestine is the use of drug delivery systems that float as soon as they come into contact with gastric fluids. However, instantaneous floating is only possible if the device's density is initially low. A significant issue with gastric delivery is achieving the best possible concentration at the site of action while maximizing the drug's bioavailability. Because of its short half-life, the traditional dosage form for peptic ulcer diseases has the drawback of requiring frequent dosing. Only a small portion of an instilled compound will typically reach the target site due to low solubility and low bioavailability between 1.5 and 3.0 hours. In order to improve gastric residence time and boost bioavailability, the current study set out to develop a gastroretentive mucoadhesive pulsatile formulation of nizatidine mucoadhesive microspheres for the treatment of peptic ulcers, primarily at the gastric part of the GIT. Flow properties determination, particle size measurement, shape and surface morphology, mucoadhesive properties, swelling study, percentage yield, drug entrapment efficiency, invitro drug release studies, and stability studies were some of the parameters used to evaluate these prepared systems. The goal of the current study was to create mucoadhesive Nizatidine microspheres with varying polysaccharide polymeric combinations in different ratios to improve mucoadhesion at the gastric mucosa, lengthen the gastric residence time, and ultimately increase the bioavailability. Drug entrapment of all formulation was found in range of 41.32 to 76.19% w/w and its efficiency slightly decreases with increasing the HPMC content.

**Keywords:** Delivery, Floating, Gastric, Mucoadhesive, Nizatidine

## **Phytochemical and anticancer studies of cinnamomum malabattrum**

### **Abstract**

**Background:** Cinnamomum malabattrum is also called as wild cinnamon, country cinnamon and as malabathrum, it belongs to the family Lauraceae, that is endemic to western ghats of India. Various chemical classes of drugs from plants like flavonoids and other phenolics, terpenes and terpenoids, some organic acids like Benzoic acids, cinnamic acid and their derivatives, alkaloids, tannins that have many therapeutic properties. It has also been found that these compounds lead to cytotoxic effects. **Aim & Objective:** The present study is undertaken to evaluate the phytochemical and anticancer activity of Cinnamomum malabattrum (stem bark). **Methods:** The stem bark of the plant was extracted by the Soxhlet apparatus with different solvent like petroleum ether, chloroform, acetone, ethanol and Water. Preliminary phytochemicals were performed with different chemical methods. The anticancer activity of ethanolic and aqueous extract were determined. **Conclusion:** The extraction of aqueous and ethanol was in a concentration-dependent manner and significantly with controlling cells inhibited the growth of cancer cells. This inhibition was made through induction of apoptosis and due to the presence of effective compounds which could be considered as valuable natural sources for the isolation of anti-cancer compounds

**Keywords:** Lauraceae; Cinnamomum malabattrum; Phytochemical, anticancer activity

## **Colloidal silver nanoparticles stabilized with callisia repens plant extract in development of new formulation for burn and wound infection**

### **Abstract**

Nanotechnology has been widely studied for its use in creating colloidal silver nanoparticles (AgNPs), which have gained considerable interest for their exceptional antibacterial and anti-inflammatory effects. Silver nanoparticles (AgNPs) are synthesised by a range of processes, including physical, chemical, and biological procedures. Out of these methods, the green synthesis technique has become popular since it uses plant extracts and has advantages such as being environmentally friendly, cost-effective, and capable of producing nanoparticles that are very stable and biologically active. The Rhodiolarosea plant, renowned for its medicinal benefits, is an exceptional resource for the environmentally friendly production of silver nanoparticles (AgNPs). These nanoparticles have strong anti-inflammatory properties, making them excellent candidates for the treatment of disorders like burn wounds, where inflammation and infection are significant issues. The compact dimensions and expansive surface area of AgNPs enable them to easily infiltrate microbial cells, hence augmenting their antibacterial potency and diminishing inflammation. Moreover, the bioactive constituents included in Rhodiolarosea extract enhance the stability and efficacy of the synthesised nanoparticles. Characterisation methods, including UV-Vis spectroscopy, TEM, SEM, and XRD, provide evidence of the effective synthesis and favourable characteristics of AgNPs. Preclinical studies have showed encouraging results in the use of AgNPs integrated into ointments for treating burn wounds. These studies have shown a substantial decrease in inflammation and improved wound healing. Further investigation and refinement of eco-friendly synthesis techniques for AgNPs have significant prospects in the development of cutting-edge, secure, and efficient therapeutic agents in the healthcare sector.

**Keywords:** Colloidal silver nanoparticles, Synthesis of nanoparticles, Green synthesis, Application

## **An efficient LC- MS/MS method for the trace level determination of 5-chloropyridine-2amine: A potential Genotoxic impurity in Etoricoxib active drug substance**

### **Abstract**

Pharmacists must find and measure genotoxic impurities (GTIs) in pharmaceutical products to protect patients. The objective of this study was to develop and validate an LC-MS/MS method for the sensitive and reliable detection of 5-Chloropyridine-2-amine, a potentially genotoxic impurity in the active pharmaceutical component etoricoxib, even at very low concentrations. Comprehensive validation was conducted on the approach's specificity, sensitivity, accuracy, and precision, and it achieved a limit of detection (LOD) and limit of quantification (LOQ) that were much lower than those of previously disclosed methods. To ensure compliance with regulatory requirements and safeguard pharmaceutical safety, it is highly recommended to conduct frequent quality control on Etoricoxib using this newly developed LC-MS/MS technique.

**Keywords:** LC-MS/MS, genotoxic impurities, 5-Chloropyridine-2-amine, Etoricoxib, pharmaceutical analysis, method validation, sensitivity, specificity, trace-level detection, regulatory compliance.

## **Challenges in Detecting Genotoxic Impurities in API Manufacturing**

### **Abstract**

act Recent advances in both the US and Europe were discussed at the symposium on genotoxic impurities in pharmaceutical synthesis, which emphasised the need for sponsors of new drug applications to put measures in place to reduce the risks associated with possible genotoxic impurities. These contaminants need further scrutiny beyond that of the more general International Conference on Harmonisation (ICH) Q3A/Q3B recommendations as conventional genotoxicity testing for medicinal compounds can fail to prove that they are safe. A more exact risk characterisation may be appropriate in some situations, but the symposium argued that the threshold of toxicological concern (TTC) should serve as the baseline for risk management. Several real-world examples were given to illustrate the process of pharmaceutical synthesis and the introduction and management of contaminants. New developments in regulation were also addressed, including the idea of a "staged threshold of toxicological concern," which is applicable to situations involving short-term administration, such as clinical trials.

## **Formulation and evaluation of microemulsion based allicin for the treatment of staph infection**

### **Abstract**

Microemulsions have several advantages over emulsions, such as low manufacturing costs, high solubility, good penetrating power, clarity and transparency, the ability to be sterilised through filtration, and thermodynamic stability over an extended length of time. One of the most important components in the creation of a microemulsion was surfactants. Combining surfactants and co-surfactants can enhance the dispersion of oil in water. The skin acts as an amazing barrier against bacterial infections. Many bacteria touch or reside on the skin, yet most of the time they are unable to create an infection. In the event that bacterial skin infections do develop, they can impact any area of the body, no matter how big or tiny. Depending on how bad they are, they could be harmless or even deadly. Bacterial skin infections can arise when bacteria enter the skin through hair follicles or microscopic skin breaks brought on by burns, sunburns, animal or insect bites, wounds, or pre-existing skin diseases. People are prone to developing bacterial skin illnesses following a variety of activities, such as gardening in contaminated soil or swimming in a contaminated pond, lake, or ocean. Antibiotics used topically are drugs used to treat bacterial infections.

**Keywords:** Microemulsions, Skin infections, Bacteria, Antibiotics, Cosurfactants

## **Preparation and Evaluation of Drug Miconazole nitrate (Gel Form) for Topical Delivery with the help of Deep Eutectic Mixture**

### **Abstract**

Skin is only the most sensible and larger part organ on human physique for skin administration and is primary path of topical drug delivery system. Human skin is composed of three distinct layers: the stratified, vascular, cellular epidermis; the connective tissue-rich dermis; and the hypodermis. The skin regulates the passage of various chemicals, prevents moisture loss, and helps regulate body temperature to maintain internal stability, known as homeostasis. Skin disorders affect nearly one-third of the global population, making them the fourth most common category of human diseases. For many years, the skin has been utilized to deliver drugs effectively and with limited bioavailability concerns compared to oral administration. Miconazole Nitrate, an antifungal medication, is specifically used topically for skin diseases. FTIR analysis confirmed the drug's purity and indicated no interactions between the drug and excipients. Gel formulations were assessed for drug content, pH levels, and viscosity. This study contains Pre-formulation study (i.e. Appearance and sensory properties, Melting Point determination, Solubility profile, UV-visible absorption spectra, Partition Coefficient, Fourier-transform infrared spectroscopy), here I was performed Formulation screening of carboxylic acid with choline chloride and choline bitartrate which is also known as deep eutectic solvent mixture on the basis of that the Formulation F6(A6)G2 was selected best formulation DESM for drug, after that preparation was evaluated.

**KEYWORDS:** Physique, Topical, Chemicals, Homeostasis, Populace, Bioavailability, Organoleptic, DESM

## **Antidiabetic potential of eclipta angustata leaves in rats**

### **Abstract**

Plants have been used for medicine from time immemorial because they have fitted the immediate personal need, are easily accessible and inexpensive. In the recent past there has been a tremendous increase in the use of plant based health products in developing as well as developed countries resulting in an exponential growth of herbal products globally. Herbal medicines have a strong traditional or conceptual base and the potential to be useful as drugs in terms of safety and effectiveness leads for treating different diseases. Only preliminary studies have been reported for the antidiabetic activity of the leaves of *Eclipta angustata*. Therefore, an attempt has been made to evaluate the antidiabetic potential of the ethanolic extract of *Eclipta angustata* leaves in streptozotocin induced diabetic models. It was found that ethanol extract of the leaves of *Eclipta angustata* was active in STZ models in Sprague-Dawley (SD) rats.

## **Development and characterization of microsphere gel containing piperine for anti-bacterial**

### **Abstract**

Polymeric system made up of porous microspheres that can entrap and release microspheres into the skin over an extended length of time is the highly cross-linked, porous microsphere delivery system used in microsponges. With less discomfort, increased tolerance, and enhanced thermal, physical, and chemical stability, this delivery technique offers longer release. Emulsion systems or suspension polymerization into a liquid-liquid system are two methods used to create microsponges. Microsponges are capable of encasing different kinds of drugs and can be used in lotions, creams, powders, and gel formulations. Piperine is found in black pepper, white pepper and long pepper belonging to the family Piperaceae. Piperine represents diverse biological activities, such as anti-inflammatory, anticancer, antiviral, anti-larvicidal, pesticide, anti-Alzheimer's, antidepressant and most importantly piperine is known as the bioavailability enhancer. The current review article aims to explore the Development and Characterization of Microsphere Gel Containing Piperine for Anti-Bacterial effect.

**Keywords:** Microsponges, Oral administration, Controlled release, Piperine, Antibacterial

## **Nano-biotechnological approach for the ultrasensitive electrochemical and fluorescence detection of Staphylococcal enterotoxin B**

### **Abstract**

*Staphylococcus aureus*, a bacterium with gram-positive characteristics and a spherical shape, is typically harboured in the human nose and skin. It can survive at a wide range of temperatures (15 °C to 45 °C), has virulence factors, and contains toxins, enzymes, and surface proteins. Staphylococcal enterotoxin B (SEB) is a heat-stable protein toxin 28 kDa in size. Food poisoning causes nausea, vomiting, stomach cramps, and diarrhoea due to the consumption of contaminated food. *Staphylococcus aureus* and its potent toxin SEB pose significant challenges to public health, food safety, and environmental monitoring. Nanobiotechnology and fluorescence-based approaches offer innovative solutions for their control, detection, and neutralization. Ultrasensitive electrochemical detection (graphene, carbon, and gold nanoparticles) and fluorescence detection (quantum dots, carbon dots, Förster resonance energy transfer, graphene oxide and metal-enhanced fluorescence) can detect Staphylococcal enterotoxin B due to their high sensitivity, specificity, and potential for miniaturization. Nanotechnology improves the detection of Staphylococcal enterotoxin B with increased sensitivity and specificity. The dual-modality detection system combines the quantitative precision of electrochemical sensors with the real-time imaging capabilities of fluorescence techniques. This review addresses the Nano biotechnology approach for the potential detection of Staphylococcal enterotoxin B. This platform can be extended to in vitro diagnostic, food analysis, biosafety, environmental application, and clinical analysis, especially cancer biomarker

## **AI-Powered Automated Detection of Cervical Cancer Using Deep Learning Techniques: A CNN and Transfer Learning Approach**

### **Abstract**

This study proposes picture enhancement in conjunction with enhancement through a deep convolution generative adversarial network to enhance categorization of cervical cancer images. With this method (DCGAN), the [cervical cancer] images can be classified in a more precise way. In order to start the right treatment, cervical cancer, a leading cause of cancer-related death for women globally, has to be detected early. Cervical cancer may be difficult to diagnose in photos because of its complexity and wide range of symptoms. We propose to generate synthetic pictures that are comparable to each category in the current dataset using a deep convolutional generative adversarial network (DCGAN). We use three different dataset layers to train the DCGAN for each class in a different session. They are then used once again to train a deep learning model for the categorization of pictures of cervical cancer after the production of fake images. These produced pictures together with the augmented dataset are used to in the pre-training of the classification model. The next conventional practice during the transfer learning technique is to further train the classifier on the training images. The proposed method is applied using a cervical cancer images dataset, which demonstrated that the combination of transfer learning and artificial data generated through DCGAN is more accurate than using only the original dataset.

## **Resveratrol as a Therapeutic Agent in Alzheimer's Disease: Evidence from Clinical Studies**

### **Abstract**

Alzheimer's disease (AD) is a progressive neurodegenerative disorder characterized by cognitive decline, memory loss, and neuronal dysfunction. It is driven by the accumulation of amyloid-beta ( $A\beta$ ) plaques, Tau protein hyper phosphorylation, oxidative stress, and neuroinflammation. Resveratrol (RSV) is a natural polyphenolic compound found in grapes, berries, and red wine that has garnered attention for its potential neuroprotective properties in combating AD. The neuroprotective effects of RSV are mediated through the activation of sirtuins (SIRT1), inhibition of  $A\beta$  aggregation, modulation of Tau protein phosphorylation, and the attenuation of oxidative stress and inflammatory responses. RSV also enhances mitochondrial function and promotes autophagy, which are important processes for maintaining neuronal health. Preclinical studies have demonstrated its efficacy in reducing  $A\beta$  burden, improving cognitive performance, and mitigating synaptic damage; however, challenges such as poor bioavailability, rapid metabolism, and limited blood– brain barrier penetration restrict its clinical applicability. Recent technological advances and selected modifications are being explored to overcome these limitations and enhance its therapeutic efficacy. This review summarizes the multifaceted neuroprotective mechanisms of RSV, the synergistic potential of natural compounds in enhancing neuroprotection, and the advancements in formulation strategies aimed at mitigating AD pathology. Leveraging the therapeutic potential of natural compounds represents a compelling paradigm shift for AD management, paving the way for future clinical applications.

**Keywords:** AD; polyphenolic compound; resveratrol; drug delivery systems; Tau protein; amyloid-beta ( $A\beta$ ) plaques

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## List of Published Patents

Sr. No	Name of the Faculty/student author of the patent	Title of Patent	Patent Number	Date of Award	Remarks
1	Dr. Amit Sharma, Dr. Abid Hussain, Dr. Garima Tyagi , Mr. Ayush Kr. Yogi, Mr. Arshad Hussain, Ms. Shalini Chawla	SMART EYEGLASSES WITH IMAGE RECOGNITION AND NATURAL LANGUAGE PROCESSING FOR AUDITORY OUTPUT	202411027559	05-10-2024	These smart eyeglasses are designed to capture and interpret visual information in real time and provide meaningful auditory feedback to the user, enhancing situational awareness and accessibility. The system aims to assist individuals in navigation, object recognition, and interactive communication through seamless audio output.
2	Dr. Pushpendra Yaduvanshi, Dr. Sonakshi Sehgal, Dr. Divya Gangwar	A NEW DIMENSION IN SHOULDER REHABILITATION COMBINING PULLEY EXERCISE WITH VISUAL FEEDBACK	202411076874	18-10-2024	This Patent introduces an innovative approach to shoulder therapy by integrating traditional pulley-based exercises with real-time visual feedback. This combination aims to enhance patient engagement, improve exercise precision, and accelerate functional recovery through interactive and guided rehabilitation.
3	Seby Sajwani, Ritika Saini, Dr. Pushpandar K. Yaduvanshi	INTELLIGENT BOLSTER WITH REAL-TIME FEEDBACK FOR KNEE REHABILITATION	202511083156	19-09-2025	This Patent integrates real-time sensors and feedback mechanisms to monitor joint movement, ensuring accurate exercise performance and enhancing rehabilitation outcomes. This intelligent system aims to provide personalized therapy while reducing the risk of improper motion or strain.
4	Dr. Abhishek Nagar, Prof.(Dr.) Mahesh Kumar Gupta	A MODEL TO ANALYZE THE POTENTIAL OF A MEDICINAL PLANT IN IMPROVING THE SOCIOECONOMIC STATUS OF THE SOCIETY	202411059806	23-08-2024	This model integrates scientific, social, and economic parameters to assess the plant's potential in enhancing livelihoods, creating employment, and promoting sustainable societal growth.
5	Dr. Nitin Nama, Dr. Girish Kumar Vyas, Dr. Harshita Jain, Mr. Rahul Kumar Ancheria	ANALGESIC POTENTIAL OF GYROCARPUS AMERICANUS JACQ. ETHANOLIC EXTRACT IN ORAL DROPS	202411097375	27-12-2024	This Patent explores the pain-relieving properties of the ethanolic extract derived from Gyrocarpus americanus. This formulation, developed as oral drops, aims to provide a natural and effective alternative for managing pain through a convenient and easily administrable dosage form.

## Contributions through MoU/Collaboration

Career Point University contributes to SDG 3 through various MoUs and collaborations that promote health awareness, research, and community well-being. These partnerships support initiatives such as health camps, blood donation drives, physiotherapy consultations, and public health education. Collaborative programs with hospitals, healthcare organizations, and NGOs enhance student training, healthcare accessibility, and preventive health services, fostering a healthier and more informed community.

Sr. No	Name of the organization with whom MOU/Collaboration being signed	Scope of MoUs
1	INTI International University	<p>Scope of cooperation The cooperation within the framework of this MOU is subject to entering a definite agreement and confirmation of mode of delivery and financial arrangements, both parties agree to collaborate in offering programs provided by INTI at Career Point through various modes of delivery, including articulation, dual award, double award, joint award in the following courses/programmes:</p> <ol style="list-style-type: none"> <li>1. Business and Management</li> <li>2. Education</li> <li>3. Information Technology</li> <li>4. Health Science</li> </ol>
2	Kota Heart Group of Hospitals, Kota	<p>The purpose of this Memorandum of Understanding MOU is to establish a collaborative relationship between Career Point University, Kota, and Kota Heart Group of Hospitals to enhance educational, research, and clinical services. This MOU outlines the roles, responsibilities, and expectations of both parties to ensure effective cooperation and mutual benefit.</p>
3	ISF College of Pharmacy, Moga	<p>The primary purpose of this MoU is to build academic research capacity, to promote mutual understanding between the Research establishments at the Institutes as well as for technical support to research. The MoU shall formally set out the terms of cooperative relationship between the parties, establish their respective roles, and facilitate the function of each party in relation to collaborative research.</p> <p>The parties agree to develop collaborative activities in academic areas of mutual interests, entrepreneurship development and as equal partners with reciprocity.</p> <p>The development and implementation of specific activities based on MoU shall be negotiated and agreed between individual faculty members and/or through the the Department/Institute. This MoU is agreed on the basis of cooperation between the parties and includes, but is not limited to, the following aspects:</p> <ol style="list-style-type: none"> <li>1. To conduct collaborative Conference/Seminar/Workshop jointly</li> <li>2. To Provide training for faculty/employee under exchange program</li> <li>3. To promote publication and also published journal under etc.</li> <li>4. Promoting any academic activities of interest based on mutual agreement</li> </ol>

		<p><b>5.</b> Utilization of Library, Laboratory facilities and software, as per agreed terms</p> <p><b>6.</b> Mentoring or Technical support to the incubatees, as needed</p> <p><b>7.</b> Exchange of faculty member's/ research scholars /students based on the projects and research needs</p> <p><b>8.</b> Utilization of Animal house and ISF Analytical Lab (Approved by NABL) after mutual discussion related to cost of proposal.</p>
4	IIHSG, NEW Delhi	<p>Broad areas of Collaboration will include: -</p> <p><b>1.</b> Experts from both organizations will visit each other for sharing their knowledge and expertise, as per mutually agreed conditions,</p> <p><b>2.</b> Study visits of Career Point University, Kota students to the Interdisciplinary Institute of Human Security &amp; If Governance (IIHSG), New Delhi as per mutually agreed date/s and timing/s. needed by the Interdisciplinary Institute of Human Security &amp; Governance (ITHSG), New Delhi interested Career Point University, Kota students can work on their Summer Training and Projects at the Interdisciplinary Institute of Human Security &amp; Governance (ITHSG)'s, New Delhi facility.</p> <p><b>3.</b> If needed by the Interdisciplinary Institute of Human Security &amp; Governance (ITHSG), New Delhi competent students of Career Point University, Kota can be employed by the Interdisciplinary Institute of Human Security &amp; Governance (ITHSG), New Delhi.</p> <p><b>4.</b> Any other, as mutually agreed to by the Interdisciplinary Institute of Human Security &amp; Governance (ITHSG), New Delhi and Career Point University, Kota.</p>
5	Vertus Foundation, New Delhi	<p>Both CPU Kota and Vertus Foundation hereby agree to encourage the academic cooperation, community development, commissioning of research projects etc. towards achieving academic excellence through following objectives:</p> <p><b>1.</b> To provide, promote social welfare in every way including education, agriculture, health, environment, culture, human rights, animal rights and crime control, etc.</p> <p><b>2.</b> To create general awareness about social, environmental, developmental, educational, human rights issues by organizing various programmes for the betterment of livelihood of the people.</p> <p><b>3.</b> Providing for and contributing to Environment Management by undertaking activities in the fields of Social Management. To Forestry, Wildlife Protection, Water Management and Bio-diversity</p> <p><b>4.</b> To create awareness amongst the general public about their rights, health issues and help them fight against various crimes and activities as and when needed.</p> <p><b>5.</b> To organise joint research programs like seminars, conferences, workshops, FDP's and online/offline lectures on relevant themes.</p> <p><b>6.</b> To promote students in research work, internship programs, field visits etc.</p> <p><b>7.</b> FOUNDATION will, from time-to-time, support/help/dovetail convergence of National and International Programmes organized by CPU.</p> <p><b>8.</b> Foundation will help CPU to scale up their programs and make presentation at different platform in this regard.</p> <p><b>9.</b> The scope of this MOU extends to the whole of India. T S</p>

6	Prem Sukh International Charitable Trust, Delhi	<ol style="list-style-type: none"> <li>1. To provide promote social welfare in every way including education, agriculture, health, environment, cultural, Human rights etc.</li> <li>2. To create general awareness about social environment development etc</li> <li>3. To organize joint research programme like seminars, conferences workshop, FDPs and online lectures.</li> <li>4. To Promote student in research work, internship programs, field visits etc.</li> </ol>
7	Lokhith Healthcare Pvt Ltd, Bhimpura Industrial area, Kota, Rajasthan	To establish a mutually beneficial relationship built on academic and scientific cooperation, Areas of cooperation between the Career Point University, Kota (Rajasthan) and Lokhith Healthcare Pvt. Ltd., Bhimpura Industrial Area, Kota (Rajasthan) include the exchange of researchers, students, publications, academic programs and research projects.

3

GOOD HEALTH  
AND WELL-BEING



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