













# I N D E X

Sr. No.	Contents	Page No
1	PHARMACY OATH	02
2	ABOUT THE INSTITUTE	03
3	VISION AND MISION OF INSTITUTE	04
4	PEOS, PSOS & COURSES OFFERED	05
5	MESSAGE FROM PATRON	06
6	MESSAGE FROM CHIEF EDITOR	07
7	MESSAGES FROM DEPARTMENT HEAD	08
8	TESTIMONIALS FROM FORMER STUDENTS	12
9	MESSAGES FROM FACULTIES	13
10	MESSAGE FROM STUDENT EDITORIAL TEAM	14
11	GLIMPSES OF ORIENTATION DAY	15
12	FRESHERS DAY	16
13	TEACHER'S DAY CELEBRATION	17
14	BLOOD DONATION DRIVE	19
15	WORLD PHARMACIST DAY	20
16	NAVRATRI DAY CELEBRATION	21
17	PRE-DIWALI DAY CELEBRATION	23
18	WEBINAR	24
19	INDUSTRIAL VISITS	24
20	HOSPITAL VISIT	27
21	MOTIVATIONAL SESSION	28
22	SEMINAR	29
23	10TH CONVOCATION	31
24	AWARENESS PROGRAMME	32
25	FACULTY DEVELOPMENT PROGRAMME	33
26	RESEARCH & ACADEMIC ACHIEVEMENT AWARDS 2023	34
27	HINDI WRITINGS	35
28	DRAWNGS	37
29	CREATIVE MINDS	38
30	FACULTY CORNER	39
31	STUDENTS ACHIEVEMENTS	43
32	FACULTY ACHIEVEMENTS	46
33	DEPARTMENT TOPPERS OF 2023-2024	50
34	PLACEMENT DRIVE	52
35	MODELS BY STUDENTS	53

# **PHARMACY OATH**

I swear by the code of ethics of Pharmacy Council of India in relation to the community and shall act as an integral part of the healthcare team.

I shall uphold the laws and standards governing my profession.

I shall strive to perfect and enlarge my knowledge to contribute to the advancement of pharmacy and publichealth.



I shall follow the system which I consider best for pharmaceutical care and counseling of patients.

I shall endeavor to discover and manufacture drugs of quality to alleviate the sufferings of humanity.

I shall hold in confidence the knowledge gained about the patients in connection with my professional practice and never divulge it unless compelled to do so by the law.

I shall associate with organizations having their objectives for betterment of the profession of Pharmacy and make contributions to carry out the work of those organizations.

While I continue to keep this oath unviolated, may it be granted to me to enjoy life and the practice of pharmacy respected by all, at all times!

Should I trespass and violate this oath, may the reverse be my lot!

# **SCHOOL OF PHARMACY**

# About The Institution

School of Pharmacy (SOP) is constituent institute of Rai University, Ahmedabad established in 2019. It holds approval from the Pharmacy Council of India (PCI) and is situated in a well-equipped campus with a remarkable building, offering an optimal environment for academic excellence and research pursuits.

Pharmacy is the branch of health sciences that deals with the preparation and dispensing of drugs. Its aim is to ensure the safe and effective use of pharmaceutical drugs. The Diploma or Bachelor of Pharmacy degree is the gateway for entering pharmacy sector in Medical, Health care industries and Hospital etc. This degree includes subject like Pharmaceutics, Pharmacology, pharmaceutical chemistry, Pharmacognosy etc.



To establish a qualitative benchmark by providing pharmaceutical education and research with the new era of technological advancements.



To establish academic & research excellence and develop core competency in the pharmaceutical sector.

Educate students through learner-centric approaches to attain the needs of health and management related fields in pharmaceutical industry.

Prepare pharmaceutical science professionals relevant for the community, industry and institution that upholds ethical values and pharmaceutical legislation.

# PROGRAMME EDUCATIONAL OBJCTIVES (PEOs)

- To build knowledgeable and skilled pharmacy professionals by providing quality educational and research opportunities.
- To enhance pharmacy professional development by training in hospitals & industries.
- To inspire the students to participate in the process of life-long learning.
- To promote teaching-learning practices by creative faculty resources & effective monitoring.
- To embodize future pharmacists with leadership and entrepreneurship capabilities
- To educate students to implement the healthcare system

# **Program Specific Outcomes (PSOs)**

#### PSO1: Medicine:

To Perform research on numerous medical topics and use your expertise of pharmacy to create the greatest possible dosage form so that the public may get high-quality medications.

#### PSO2: Public's Health:

To improve the public's health and well-being, provide patient-centered, efficient therapies to address therapeutic concerns with the necessary medications, and describe the impacts of the pharmaceuticals by examining the scientific literature.

Courses	Duration	Intake
D.Pharm	2 Year	60
B.Pharm	4 Year	100
D2D (B.Pharm)	3 Year	-

## MESSAGE FROM PATRON



#### Greetings to all,

As the Principal of the School of Pharmacy, I extend my best wishes for the release of our second e-newsletter, "Aushadhi Ganga". I firmly believe that our faculty members are the guiding light for our students, who represent our future. It is our primary responsibility to foster creativity, curiosity, and innovation in healthcare. Our college is dedicated to encouraging students to explore new ideas, engage in healthy competition, and participate in sports, all while receiving top-notch education. We strive to create an environment that nurtures both academic and personal growth, ensuring that our students are well-prepared to make a meaningful impact in society.

The current issue of our newsletter reflects the various activities and accomplishments from July 2023 to June 2024. Our primary goal with this publication is to share valuable information about our institute, and we trust that our readers will find it both informative and beneficial. I extend my sincere congratulations to the editorial board, our dedicated faculty members, and especially the enthusiastic students who have worked diligently to bring this inaugural issue to fruition. We are grateful for the insightful contributions from the faculty and staff of the School of Pharmacy (SOP), which have been instrumental in shaping this newsletter. We welcome and encourage all suggestions and feedback, as they are crucial for enhancing future editions of our newsletter. I also wish to express my deep appreciation to the esteemed management for their unwavering support and encouragement, which has been vital in fostering innovative ideas. The continued aim of this newsletter is to provide readers with valuable knowledge and updates from SOP, helping to keep everyone well-informed about our institute's achievements and developments.

Regards, **Dr. Sanjesh Kumar Rathi**Principal & professor

## MESSAGE FROM CHIEF EDITOR

Dear Readers.

It is with immense pleasure that we present to you our e- newsletter for the academic year 2023-2024, Aushadhi Ganga. The name Aushadhi Ganga meanings to "the river of medicine" or "the Ganges of medicine," reflecting its focus on medicine and healing. In Indian culture, the Ganges symbolizes purity and abundance, for a publication dedicated to sharing valuable knowledge andadvancements in pharmacy and medicine.



The term "guru" signifies someone who illuminates the path to the future. As teachers, we have the profound responsibility of guiding students from darkness into light. Interestingly, this journey of enlightenment is mutual; I learn daily from my students, who contribute to my own knowledge and growth. Their achievements and progress are reflections of my own success as an educator.

In this e-newsletter, you will find a comprehensive overview of the various curricular activities we have conducted over the past year. This includes the notable achievements of our students and faculty, as well as the creative projects our students have undertaken. Our goal is to offer a magazine that is both informative and enjoyable, capturing the essence of our academic and extracurricular endeavors.

I would like to express my heartfelt gratitude to everyone who contributed to the completion of this magazine. Special thanks go to Dr. Anil Tomar, Provost of Rai University, Ahmedabad, for his unwavering support and guidance. I am also deeply grateful to Dr. Sanjesh Kumar Rathi, principal and professor of the School of Pharmacy, for his continuous encouragement and assistance. Moreover, I extend my sincere appreciation to my esteemed colleagues and our dear students. Their enthusiasm, hard work, and collaboration have been instrumental in bringing this newsletter to life.

I hope this magazine serves as a source of inspiration and pride for all of us, showcasing the vibrant and dynamic spirit of our institution. Thank you once again to everyone involved for their dedication and support. Together, we will continue to achieve great things and advance the field of pharmacy and medicine.

Warm regards,

Ms. Jayalekshmi.M

Assistant Professor,

Department of Pharmacology

"I hope that the diverse voices on this platform will make this effort widely recognized and impactful"

# MESSAGE FROM DEPARTMENT HEAD (PHARMACEUTICS)

Dear Future Pharmacists,

I am filled with immense pride and admiration for each of you. Your dedication, passion, and hard work are the driving forces behind our collective success in the field of pharmacy.

Whether it's in the classroom, the laboratory or in real-world practice, you have shown a remarkable ability to adapt, learn, and innovate. These qualities will not only make you outstanding pharmacists but also compassionate caregivers and leaders in the healthcare community.



As you continue on this journey, remember that the field of pharmacy is ever-evolving. Embrace the changes, seek out new knowledge, and continue to strive for the highest standards of practice. Your role is crucial in ensuring the well-being of individuals and communities alike and I am confident that each of you will rise to the occasion with integrity and skill.

Congratulations on all your hard work and achievements. I look forward to seeing all the incredible things you will accomplish in the future.

Warm Regards,

Mr. Anupam Sahoo

I/C Head,

Department of Pharmaceutics

# MESSAGE FROM DEPARTMENT HEAD (PHARMACOLOGY)

Dear Future Pharmacists and Graduates,

As you embark on your journey in the field of pharmacy, remember that your role extends beyond dispensing medications. You are the bridge between medicine and the people it heals. Embrace continuous learning, uphold ethical standards, and always prioritize patient care. The knowledge and skills you acquire here will not only define your career but also have a lasting impact on the health and well-being of society. Stay curious, stay compassionate, and strive for excellence in all that you do. The future of healthcare is in your hands.



Warm Regards,

Ms. Varsha Nadkar

I/C Head of Department - Department of Pharmacology

# MESSAGE FROM DEPARTMENT HEAD (QA & CHEMISTRY)

Dear Students and Colleagues,

As we celebrate another milestone in our academic journey, I am honored to extend my heartfelt congratulations and appreciation to each one of you. The Department of Pharmaceutical Chemistry and Quality Assurance continues to thrive due to your dedication, hard work, and unwavering commitment to excellence.



Our field is ever-evolving, and the pursuit of knowledge and innovation is paramount. I urge you all to embrace the challenges and opportunities that lie ahead with enthusiasm and perseverance. Let us continue to push the boundaries of science, uphold the highest standards of quality, and contribute meaningfully to the pharmaceutical industry.

Together, we can achieve great things and make a significant impact. Here's to another year of remarkable achievements and advancements.

Warm Regards,

Dr. Bhoomi Patel

Associate Professor

Head of Department – Department of QA & Pharmaceutical Chemistry

# MESSAGE FROM DEPARTMENT HEAD (PHARMACOGNSY)

Dear Students and Esteemed Colleagues,

As we reflect on our achievements and look towards the future, I want to express my deep appreciation for the relentless effort and dedication displayed by each member of our department. Our progress in Pharmaceutical Chemistry and Quality Assurance is a testament to your hard work and passion.



Our commitment to advancing pharmaceutical sciences and ensuring the highest standards of quality remains unwavering. Let us continue to foster innovation, embrace new challenges, and strive for excellence in all our endeavors. Your contributions are invaluable in shaping the future of our field.

Together, we will achieve new heights and make lasting contributions to the industry. Best

Regards,

Ms. Kajal Patel

Associate Professor

I/C Head of Department – Department of pharmacognosy

## **TESTIMONIALS FROM FORMER STUDENTS**

"Rai University" – these words evoke so many memories. Four years seem so short as I say goodbye. From my first day, the hospitality and new experiences were overwhelming. The supportive faculty, beautiful campus, quality education, and amazing people made it everything I hoped for. Throughout my journey here, I have grown in every aspect as a student and person. The faculty stood by me from day one to the end of placements.



Thank you, Rai University – the administrators, HODs, and faculty, for your unwavering support and kindness. You made me feel at home and provided lifelong mentors I can always turn to. The memories, friendships, and knowledge gained will always shape me. This university has been an incredible place to learn, study, and have fun. I will always remain your student. Thank you, Rai University, for being one of my best memories.

Regards, **Tonching Yangmai Chang** (B.Pharm), Batch (2020-24)

Greetings to all,

As a proud alumnus of Rai University, I am honored to share my journey with you. Being part of the foundation batch of the B-Pharm program holds a special place in my heart. Our journey was filled with learning, camaraderie, and growth, laying a strong foundation for future batches. The dedication and support of our esteemed faculty, who instilled perseverance and integrity, marked my time at Rai University. The rigorous curriculum and hands-on training prepared



us well for the pharmaceutical industry's challenges, and I am grateful for the holistic education I received.

To current students, cherish every moment. Embrace challenges, learn from mistakes, and seek guidance from mentors. The friendships and networks you build here are invaluable. Success is not just academic achievements but the positive impact you create. Strive to be compassionate and ethical professionals, always open to learning. I am proud to be part of the Rai University family and look forward to its continued growth.

Best wishes for a bright future, **Uzmah Girach** (B.Pharm), Batch (2020-24)

## **MESSAGES FROM FACULTIES**

**Mr. Pratyushkumar Brahma,** Assistant Professor Department of QA: "Education is the foundation of your future. In this evolving field of pharmacy, stay dedicated and committed to continuous learning. Remember, the knowledge you gain today will drive the innovations of tomorrow."

**Mr. Soumyaranjan Biswal,** Assistant Professor of Pharmacology: "Embrace every learning opportunity with passion and curiosity. Your journey in pharmacy will shape the future of healthcare. Strive for excellence and innovation as you contribute to the well-being of society."

**Mr. Mitul Bhoi,** Assistant Professor of Pharmaceutical Chemistry: "Pharmacy is not just a profession but a commitment to improving lives. Let your academic journey be fueled by compassion, curiosity, and the pursuit of excellence. Together, we will create a healthier tomorrow."

**Mr. Ravikiran Vegada,** Assistant Professor of Pharmacognosy: "Your time here will be transformative. Focus on building a strong foundation in pharmacy, and always be open to new ideas. The future of healthcare lies in the hands of those who dare to innovate."

**Mr. Navinraj Mourya,** Associate professor of Quality Assurance: "Pharmacy is a field that demands both knowledge and integrity. As you advance in your studies, let ethical practice guide your every decision. The future of medicine relies on your commitment to doing what is right."

**Mr. Nitesh Ranjan Parida,** Assistant Professor of Pharmacology: "Your journey in pharmacy is just beginning. Approach every challenge as a learning opportunity, and never hesitate to seek guidance. The knowledge you build today will serve you and your patients for years to come."

### MESSAGE FROM STUDENT EDITORIAL TEAM

The Editorial Board of the School of Pharmacy is delighted to present its unique creation, the Annual Magazine, which serves as a platform to showcase the literary and artistic talents of the pharmacy community. It brings us great joy and satisfaction to continue this cherished tradition and proudly reintroduce our own magazine, 'AUSHADHI GANGA 2024.'

As the saying goes, "Creativity is a great motivator because it makes people interested in what they are doing. Creativity gives hope that there can be a worthwhile idea. Aushadhi Ganga has been a source of inspiration, highlighting the creative side of pharmacists. With this in mind, we have compiled a collection of ideas, faculty profiles, artistic pieces, poems, and much more. We sincerely hope you enjoy reading this magazine as much as we have enjoyed creating it.

We warmly welcome any suggestions and feedback on the magazine.

A special thanks goes out to our batch mates, juniors, seniors, teachers, staff, and the entire pharmacy family for their invaluable support.

#### Regards,

- Lama Sheetal Lapka (B. Pharm Semester-VI)
- 2. Dabhi Jenifer (B. Pharm Semester- IV)
- 3. Kavya patel Chandresh (B. Pharm Semester-II)
- 4. Naani kumari Rajput (D. Pharm I)

## **EVENTS**

#### **GLIMPSES OF ORIENTATION DAY (AARAMBH-2023)**

On the 2nd of August 2023, the School of Pharmacy hosted a vibrant Orientation Day for the newly enrolled B. Pharm and D. Pharm students. The event marked the beginning of an exciting academic journey, filled with enthusiasm and anticipation from both students and faculty. The day commenced with a warm welcome address, followed by an introduction to the college's departments and an overview of the academic programs. The students were introduced to the distinguished faculty members, who shared insights about their respective fields and the role they play in shaping the future of pharmacy professionals.

Interactive sessions were a key highlight of the day, with quizzes designed to engage the students and test their knowledge on basic pharmacy concepts. These activities not only made the orientation fun but also helped break the ice among the students. The event provided an in-depth understanding of the college's mission, vision, and values, along with the resources available to support students in their academic pursuits. The faculty's introductions gave the students a sense of the strong support system they have as they embark on this new chapter in their education.

Overall, the Orientation Day was a great success, setting a positive tone for the academic year ahead.





#### SCHOOL OF PHARMACY, RAI UNIVERSITY





#### FRESHER'S DAY CELEBRATION - REENCORE 2023

On September 30, 2023, the campus buzzed with excitement as students and faculty came together for the much-anticipated Fresher's Day celebration, "ReEncore 2023." The event featured a vibrant fashion show, energetic dance performances, melodious songs, fun-filled games, and a lively DJ session. The celebration also included a prize distribution ceremony, recognizing outstanding talents and participants. The evening was complete with delicious food, creating a festive and welcoming atmosphere for the new students. ReEncore 2023 was a memorable and joyous start to the academic year.









#### **TEACHER'S DAY CELEBRATION**

On 2023, September 5, the students of School of Pharmacy celebrated Teachers' Day with great enthusiasm and creativity, expressing their gratitude and appreciation for the faculty members. The day was filled with joy, surprises, and heartfelt gestures that made the occasion truly memorable for everyone involved. The celebration began with students decorating the staffroom and faculty offices early in the morning, transforming the spaces into vibrant, festive areas with colourful balloons, streamers, and thoughtful messages. The surprise continued as students presented chocolates and small gifts to their teachers, each gesture accompanied by warm smiles and words of appreciation.

One of the highlights of the day was the cake-cutting ceremony, where faculty members and students gathered to share in the joy of the occasion. The atmosphere was filled with laughter and camaraderie as everyone enjoyed the delicious cake together. Adding to the fun, the students organized a treasure hunt game on the campus, in which the teachers participated enthusiastically.

The Teachers' Day celebration of 2023 was a wonderful event that strengthened the bond between students and faculty. It was a day of joy, recognition, and mutual respect, leaving lasting memories for all who participated.





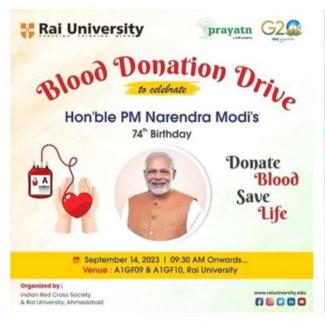






#### **BLOOD DONATION DRIVE**

On 2023, September 14, a successful Blood Donation Drive was held on campus, with enthusiastic participation from both students and faculty. The event, organized in collaboration with a local blood bank, ensured all procedures were safely managed. The drive saw a strong turnout, with many students and faculty members donating blood and encouraging others to do the same. Their collective efforts resulted in the collection of numerous units of blood, highlighting the community's spirit of generosity and commitment to saving lives. The day was marked by compassion and a shared sense of social responsibility.









#### **WORLD PHARMACIST DAY**

On September 25, 2023, World Pharmacist Day was celebrated with enthusiasm at our institution. The event featured a series of programs, including speeches, motivational talks, and poetry recitals, all highlighting the vital role of pharmacists in healthcare. Faculty members delivered inspiring speeches on the importance of the profession, while students shared poems celebrating the dedication and contributions of pharmacists. The event fostered a sense of pride and commitment among students, emphasizing the significance of their future roles in improving patient care and public health. Overall, the celebration was a meaningful tribute to the pharmacy profession.









#### SCHOOL OF PHARMACY, RAI UNIVERSITY







#### **NAVRATRI CELEBRATION**

On October 20, 2023, the campus buzzed with energy as students and faculty celebrated Navratri. The evening's highlight was the Garba dance, with participants in colorful traditional attire enjoying the lively music. The event fostered cultural expression and strengthened campus community spirit, making it a memorable celebration of unity and heritage.



#### SCHOOL OF PHARMACY, RAI UNIVERSITY







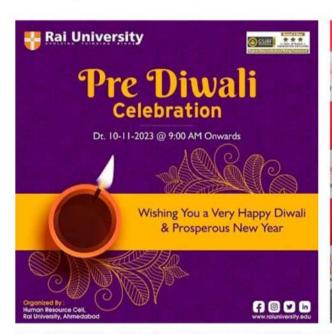






#### **PRE DIWALI CELEBRATION**

On November 10, 2023, the campus hosted a vibrant Pre-Diwali celebration. The festivities included engaging games, the exchange of gifts, and a delightful array of food and sweets. The event was marked by a joyous atmosphere as everyone came together to celebrate the spirit of Diwali ahead of the main festival. The occasion fostered camaraderie and festive cheer, creating a memorable prelude to the Diwali celebrations.







#### WEBINAR

On October 19, 2023, a webinar titled "Importance of Profession Readiness Training in Clinical Research & Pharmacovigilance" was conducted with Ms. Akansha Singh as the guest speaker. The event saw active participation from students and faculty, eager to learn about professional preparedness in these fields. Ms. Singh highlighted the growing need for trained professionals, emphasizing skill development, real-world experience, and staying updated with industry trends. The webinar



offered valuable insights into how training programs bridge the gap between academic knowledge and industry demands. The session ended with an interactive Q&A, making the event a great success.

### **INDUSTRIAL VISITS**

# CONCORD BIOTECH LTD. VALTHERA PLANT

On November 6, 2023, students and faculty from Rai University's School of Pharmacy visited Concord Biotech Ltd in Valthera. The tour, starting at 10:00 AM, included insights into various plant operations such as air filtration, water purification, and raw material storage. Highlights included a lecture by Dr. Manoj Kumar, refreshments, and observations of production, packaging, and QA-QC processes. Key learning outcomes included a deeper understanding of



pharmaceutical production, quality control measures like HPLC and IR, and the importance of safety and cleanliness in industrial settings. The visit provided valuable hands-on experience and expanded the students' industrial knowledge.

#### SCHOOL OF PHARMACY, RAI UNIVERSITY









# WEST-COAST PHARMACEUTICAL WORKS LTD

On April 12, 2024, students and faculty from Rai University's School of Pharmacy visited WEST-COAST PHARMACEUTICAL WORKS LTD. The visit provided insights into safety measures, raw material storage, production processes, packaging, QC, stability testing, and finished product storage. Highlights included hands-on experiences in drug formulation, quality control, and regulatory compliance.



#### SCHOOL OF PHARMACY, RAI UNIVERSITY

This exposure offered valuable learning opportunities, enhancing students' understanding of pharmaceutical processes and industry practices. Students gained crucial knowledge in drug development and quality assurance, equipping them for future roles in the pharmaceutical industry. The company manufactures a range of products, including nutraceuticals, cosmetics, and herbal supplements.







#### **HOSPITAL VISIT**

# K.D. HOSPITAL, AHMEDABAD, GUJARAT

On April 25, 2024, Pharmacy students and faculty from Rai University visited K.D. Hospital in Ahmedabad to gain insights into hospital pharmacy operations. The visit covered various areas, including the Central Pharmacy, OPD Pharmacy, and OT Pharmacy. Students learned about medication management, patient care, counselling and the roles of pharmacists in a hospital setting. They also observed clinical rounds,



interdisciplinary collaboration, and specialized services like chemotherapy. The experience emphasized the importance of accuracy, regulatory compliance, quality assurance, and proper documentation in hospital pharmacy practice.









#### **MOTIVATIONAL SESSION**

On December 12, Mr. Anupam Sahoo, Associate Professor of Pharmaceutics, delivered an inspiring motivational speech to the students. His talk focused on the importance of perseverance, hard work, and maintaining a positive mindset in both academic and personal life. Mr. Sahoo emphasized the value of setting clear goals, staying disciplined, and being resilient in the face of challenges. He also shared personal experiences and practical tips on how to overcome obstacles and achieve



success. The speech was well-received, leaving students motivated and energized to pursue their aspirations with renewed determination.





#### **SEMINAR**

#### NATIONAL PHARMACY EDUCATION DAY

On March 6, a seminar titled "Leveraging Synergism: Industry-Academia Partnership for Implementation of National Education Policy – 2020" was held, focusing on the collaborative efforts needed to successfully implement NEP 2020. The seminar highlighted the importance of bridging the gap between industry and academia to enhance educational outcomes and align them with industry needs.



Experts from both sectors discussed strategies for fostering innovation, skill development, and research initiatives. The event underscored the role of such partnerships in creating a more dynamic and practical education system, ultimately benefiting students and the nation's future workforce.



#### SCHOOL OF PHARMACY, RAI UNIVERSITY





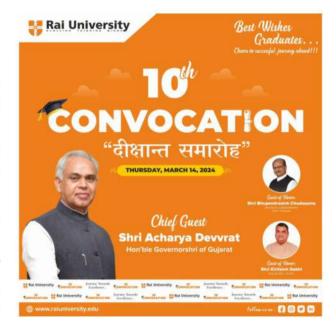




### 10<sup>th</sup> CONVOCATION "दीक्षान्त समारोह"

The 10th Convocation "

" for the 2021-2023 batch was held on March 14, with graduates celebrating their achievements alongside proud parents. The ceremony was graced by the presence of the Chief Guest Shree Acharya Devvrat Governorshree-Governor of Gujarat, who presented trophies to the top-performing students, recognizing their outstanding academic accomplishments. The event was marked by a sense of pride and



accomplishment, as graduates received their degrees and looked forward to their future careers.







#### AWARENESS PROGRAMME

### CARDIOPULMONARY RESUSCITATION (CPR) AWARENESS PROGRAMME

On December 6, 2023, Rai University's School of Pharmacy held a CPR Awareness Programme, aligning with a nationwide initiative by the National Board of Examinations in Medical Sciences. Mr. Soumyaranjan Biswal, Assistant Professor of Pharmacology department, demonstrated CPR techniques, including chest compressions, rescue breaths, and



AED usage. Principal Dr. Sanjesh Rathi emphasized the importance of CPR during heart attacks. The event offered hands-on training, boosting participants' confidence and preparedness in emergencies, with a focus on early intervention and community resilience.





#### **FACULTY DEVELOPMENT PROGRAMME**

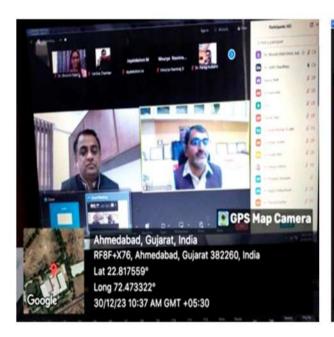
The 5-Day Virtual Faculty Development Programme, held from 26th to 30th December 2023, successfully enhanced the teaching skills and knowledge of pharmacy faculty members. Distinguished experts led each day's session, covering various aspects of pharmaceutical education. Dr. Maulik D. Vaja discussed advancements in pharmaceutical chemistry, while Dr. Pragnesh Patni and Dr. Palak Shah focused on cutting-edge pharmacology studies and emerging trends. Dr. Parag Kulkarni highlighted







innovative techniques in pharmaceutics, and Dr. V. R. Ravikkumar emphasized the role of natural products in pharmacognosy. The programme was well-received, with active participation and appreciation from attendee.





#### **RESEARCH & ACADEMIC ACHIEVEMENT AWARDS 2023**

On May 6, 2024, during the Founders Day celebration, the Research & Academic Achievement Awards 2023 were presented to outstanding faculty members. The event recognized their exceptional contributions, with awards given for best research, highest patent publications, and book publications. In addition to the prestigious awards, recipients were also honored with cash prizes as a token of appreciation. This event celebrated the faculty's dedication to academic excellence and research innovation.



highlighting the university's commitment to fostering a culture of scholarly achievement.







## हहन्दी लेखन

अगर आप इस जीवन को देखेंगे, तो पाएं गे कक लगभग हर चीज भय के कारण ही हो रही है। सबसे पहले आप यह समझें कक भय क्या है और क्यों है। भय तब जन्म लेता है जब आप अपने आप को ककसी चीज़ से जोड़ते हैं। भय, असल में, अहंकार की एक छाया है। यह भी समझ लें कक आप भय को कमटाना चाहेंगे क्योंकक आप भयभीत हैं। लेककन, जब

तक आप भय से भी भयभीत हैं, आप उसे कमटा नहीं ं पाएं गे क्योंकक भय अहंकार की छाया है। जब-जब आपको भय सताएगा, तो आप समकझए कक यह आपके अहंकार से उत्पन्न हो रहा है।



KATHRANI HEET (2<sup>nd</sup> Sem - B. Pharm

भय क्या है? जानते क्या हैं कक भय मौत के कारण होता है। इसे आप नकार नहीं सकते। हर मरने वाला जानवर अपनी जान बचाने के कलए भागता है। लेककन, जो भी जीकवत है, उसे मरना ही है। यह कनकित है। अगर आपने अपने आप को इस मन के साथ एक समझा है, तो मन तो अस्थायर है, क्षणभंगुर है, और इससे भी आप भयभीत होते हैं। भय पैदा ही तादात्म्य से होता है। अगर आप अपने आप को ककसी चीज़ से जोड़ते हैं, तो भय पैदा होता है। अगर आप अपने आप को शरीर मानते हैं, तो भय पैदा हो जाएगा। अगर आप धमम से जुड़े हैं, तो भय पैदा हो जाएगा। अगर धन से जुड़े हैं, तो भय पैदा हो जाएगा। आप ककसी भी चीज़ से जुड़ेंगे, तो भय पैदा हो जाएगा। आप भय को समाप्त करने के कलए उसका सामना करें। जहााँ भी भय कदखे, वहााँ ध्यान करें। यह समझें कक भय क्या है, कहााँ से उठ रहा है, ककसकलए है और मन के ककस अचेतन स्तर से यह आ रहा है। जन आप यह समझ लेंगे कक आप शरीर नहीं हैं, आप मन नहीं हैं, और जन आप सभी चीज़ों से अपने जुड़ाव को समाप्त कर देंगे, तो आप पाएं गे कक भय समाप्त हो गया। कजस कदन आप जानेंगे कक 'मैं' नहीं है, उस कदन आप जानेंगे कक 'अहंकार' भी नहीं के मनेगा। श्रूचा खनाव ही शाखत है। भय पर ध्यान दें और उसका सामना करें। श्रूचता को चाहकर भी समाप्त नहीं कि कर्ण साम सकता।

## हवज्ञान और हिहकत्सा

कवज्ञान और कचककत्सा हमारे समाज के दो महत्वपूणम स्तंभ हैं जो जीवन को समझने और उसे बेहतर बनाने में महत्वपूणम भूकमका कनभाते हैं। हवज्ञान (Science)

कवज्ञान वह प्रणाली है कजराके माध्यम से हम प्रकृ कत और ब्रह्ांड के रहस्ों को समझने का प्रयास करते हैं। यह ज्ञान की एक शाखा है जो कनप्पक्ष, त्यवस्थयत और तकम संगत जांच के माध्यम से सत्य का पता लगाने का प्रयास करती है। कवज्ञान के कवकभन्न क्षेत्ों में भौकतकी, रसायनशास्त्र, जीवकवज्ञान, खगोलशास्त्र, भूकवज्ञान आकद



TAPASWANI MARTHA (2<sup>nd</sup> Sem - B. Pharm)

शाकमल हैं। कवज्ञान ने हमें न के वल इस बह्ांड की गहराईयों में झांकने की शस्िदी है. बस्ि यह भी कसखाया है कक प्राकृ कतक घटनाओं के पीछे के कनयमों और कसद्ांतों को कै से समझा जाए। कवज्ञान के द्वारा हम अपने आसपास की दुकनया का कवश्लेषण और प्रयोग कर सकते हैं, कजससे नई-नई खोजें और आकवष्कार संभव हो पाते हैं। कवज्ञान ने तकनीकी प्रगकत को भी बहुत बढ़ावा कदया है, कजसने हमारे जीवन को अकधक आरामदायक और समृद् बनाया है।

हिहकत्सा (Medicine)

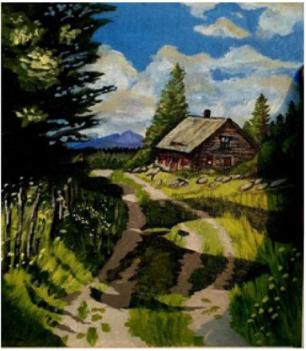
कचककत्सा कवज्ञान की वह शाखा है जो मानव शरीर, उसकी कायमप्रणाली, और कवकभन्न वीमाररयों के कनदान, उपचार और रोकशाम से संवंकधत है। कचककत्सा का मुख्य उद्दे श्य मानव जीवन को खथथ और दीघामयु बनाना है। कचककत्सा कवज्ञान ने आधुकनक युग में अभूतपूवम प्रगंकत की है, कजससे हम पहले से अकधक जकटल बीमाररयों का इलाज कर सकते हैं। कचककत्सा के कवकभन्न क्षेत्, जैसे कक सजमरी, फामामकोलॉजी, जैव रसायन, और पैथोलॉजी, हमें खारश्य के कवकभन्न पहलुओं को समझने और उन पर काम करने का अवसर प्रदान करते हैं। आधुकनक कचककत्सा ने न के वल बीमाररयों को कनयंकत करने में, बस्ि उन्हें पूरी तरह से खत्म करने में भी महत्वपूणम भूकमका कनभाई है। टीकाकरण, प्रत्यारोपण, और उन्नत दवाओं के माध्यम से कचककत्सा ने लाखों लोगों के जीवन को बचाया है। कवज्ञान और कचककत्सा दोनों ही समाज के कलए अनमोल उपहार हैं। कवज्ञान के कसद्ांतों के आधार पर ही कचककत्सा का कवकास हुआ है, और दोनों का समन्वय ही मानवता की प्रगंकत का आधार है।

#### **DRAWINGS**



GUPTA KHUSHI GHANSHYAM (2<sup>nd</sup> Sem - B. Pharm)









#### **PHOTOGRAPHY - MY CAMPUS**



Aftab Patel (6<sup>th</sup> Sem - B. Pharm)











Nayan Patel (2<sup>nd</sup> Sem - B. Pharm)

#### **FACULTY CORNER**

#### Quality by Design (QbD)

Quality by Design (QbD) is a modern approach to developing pharmaceutical products that emphasizes building quality into the product from the beginning.

Unlike traditional methods, where quality is primarily tested at the end of production, QbD integrates quality into every stage of the product lifecycle. The QbD framework involves a deep understanding of the product and process, starting with defining a



SHUBHAM SINGH
Assistant Professor,
Department of Pharmaceutics

Quality Target Product Profile (QTPP) that outlines the desired product characteristics. From there, critical quality attributes (CQAs) are identified, which are the physical, chemical, biological, or microbiological properties that must be controlled to ensure the product meets its quality standards. A key aspect of QbD is the identification of Critical Process Parameters (CPPs) and Critical Material Attributes (CMAs) that impact the CQAs. By using risk management tools and statistical methods, manufacturers can design robust processes that consistently produce high- quality products. This approach reduces the likelihood of defects and enhances regulatory compliance and operational efficiency.

Pharmacy are increasingly recognizing the value of QbD in ensuring the consistent quality of medications, which is crucial for patient safety. As the

pharmaceutical industry embraces technological advancements, the integration of Artificial Intelligence (AI) with QbD is set to revolutionize drug development. AI can analyze vast amounts of data to predict outcomes, optimize processes, and ensure that quality standards are met more efficiently. The future of pharmacy lies in this synergy, where AI-driven QbD will enable more precise, personalized, and effective treatments, paving the way for a new era of healthcare.



#### **Pharmacognosy**

वृक्षः सवेऽकप सस्न्त वनस्पतयः शशिधरा । पुष्प फलं च मूलं च पल्लवं तु गुणैयुमतम्॥

Meaning: "All trees and plants, blessed by the moon, possess flowers, fruits, roots, and leaves, each enriched with unique qualities." This shloka emphasizes the significance of every part of a plant, from roots to leaves, highlighting that they are all endowed with valuable properties. This aligns with the concept of pharmacognosy, where the focus is on understanding and utilizing the



MR. RAVIKIRAN VEGADA

Assistant Professor,

Department of Pharmacognosy

medicinal qualities inherent in various parts of plants.

In an era where science and tradition converge, pharmacognosy stands at the forefront of innovation, exploring the healing potential hidden within the natural world. From ancient herbal remedies to modern drug development, this field unearths the secrets of plants, fungi, and marine organisms, transforming them into life-saving medicines.

Pharmacognosy is not just the study of natural products but a bridge between the past and the future of healthcare. By understanding the complex chemistry of natural substances, researchers can develop new treatments for diseases, paving the way for a healthier, more sustainable world.

As we continue to explore the vast biodiversity of our planet, the role of pharmacognosy becomes ever more critical. Each discovery brings us closer

to new therapeutic breakthroughs, reminding us that nature is an invaluable source of inspiration and innovation. Let us celebrate and support the work of those who dedicate their lives to unlocking the full potential of nature's pharmacy.



#### Unbreakable spirit: story of courage

You can't always have a good day. But you can always face a bad day with a good attitude.

Once, in a small village, there was a young girl named Aria who loved to paint. She dreamt of creating a masterpiece that would inspire the world. But she was poor, and her paints were limited. Despite this, she painted every day, using the same old brushes and mixing colours carefully to make them last.



MS. KAPILA N.KALESH
Assistant Professor,
Department of Quality Assurance

One day, a great artist visited the village and saw Aria's work. He was amazed by the beauty and passion in her paintings, created with so little. The artist asked her, "How did you create such art with so few resources?"

Aria smiled and said, "I used what I had and poured my heart into it. It's not about what you have; it's about what you do with it."

The artist was deeply moved and shared her story with the world. Aria's paintings became famous, not because of the materials she used, but because of the spirit and determination she put into them. Her story reminded everyone that greatness isn't about resources; it's about heart and persistence.

And so, Aria's dream of inspiring the world came true.ential of nature's pharmacy.



# THE BENEFITS AND RISKS OF DRINKING WATER FROM COPPER CUPS: A BALANCED REVIEW

Copper cups for drinking water have gained significant popularity due to their potential health benefits, which are rooted in ancient practices and supported by some modern research. Storing water in copper vessels is believed to imbue the liquid with several beneficial properties, including antimicrobial effects, mineral infusion, and antioxidant activity.



MS. JAYALEKSHMI. N Assistant Professor, Department of Pharmacology

Copper's antimicrobial properties are particularly noteworthy; studies have shown that copper can effectively kill harmful bacteria and pathogens, making it a natural water purifier. Moreover, water stored in copper vessels may become infused with small amounts of copper ions, which are essential for the human body in trace amounts. Copper is known to support various bodily functions, including the production of hemoglobin and the maintenance of healthy bones, nerves, and the immune system. Its antioxidant properties also help neutralize free radicals, potentially reducing oxidative stress.

In traditional Ayurvedic medicine, copper water is used to balance the body's three doshas - Vata, Kapha and Pitta - thereby promoting overall health and well-being. However, despite these benefits, there are potential side effects

associated with excessive copper intake. Overuse of copper cups can lead to copper toxicity, which manifests as symptoms like nausea, vomiting, abdominal pain, and liver damage. Furthermore, some individuals may experience an alteration in taste or gastrointestinal sensitivity due to the copper content. Before incorporating copper cups into daily use, it is essential to understand one's own body's copper levels. Both hypercopperemia (excess copper) and



hypocopperemia (copper deficiency)

can lead to health issues. If any adverse effects or symptoms of copper toxicity occur, it is advisable to consult a healthcare professional for guidance. As with any health supplement, moderation and informed use are key to reaping the benefits while minimizing potential risks.

#### STUDENTS ACHIEVEMENTS

- 1. TAPASWANI MARTHA (B. Pharm 2nd semester)
- Participated in Gujarat Youth Parliament- 2023
- Participated and secured 1st prize, Debate Competition in National Science Day





#### 2. PURNIMA MAHTA, (B. Pharm 2nd semester)



- Participated and secured 2nd prize in leaf art and craft activity in International Forestry Day
- Participated poster presentation in National Science
   Day
- Participated as delegate in Anand Pharmacy College, Gujarat
- Participated debate competition and secured 2nd rank in National Science Day

#### 3. SHARMA ABHAY PARAMHANS (B. Pharm 6th semester)



- Participated Indus Science Fest- 2024, Debate on Science in Indus University.
- Participated pharma fest-2024 in Parul University.

#### 4. KAVYA PATEL C (B. Pharm 2nd semester)



- Participated a Webinar DFree preventive strategies and treatment options for Hepatotoxicity
- Participated Webinar on Multy omics Approach: A paradigm shift in Drug Discovery
- · Participated in the Gujarat Youth Parliament

#### 5. KHUSHI GUPTA (B. Pharm 2nd semester)



- Participated in National Science Day
- Participated in Fashion Show in Rai University- 2024

#### 6. SHAKYWANSHI ROHAN BHAGVANSINH (B. Pharm 6th semester)



- Participated in National Science Day
- Presented a poster presentation in S. K. Patel College of Pharmaceutical Education and Research, Ganpat University.
- Secured 1st Prize in scientific poster presentation in Indus University
- Participated pharma fest-2024 in Parul University.









Our students and faculty have actively participated in various competitions, including presentations and pharma innovations at reputed colleges. It's a privilege to witness their growth in the pharmaceutical field. Congratulations to each participant! Keep up the excellent work, and continue striving for excellence in all your future endeavors.









#### **FACULTY ACHIEVEMENTS DETAILS OF PATENTS**

1 2 3	Dr. SanjeshKumar G. Rathi Ms. Bhoomi patel Ms. Jankhana Baraiya	T Maze device for detection of locomotor activity in animals Column chromatography apparatus for separation of analytical compounds Greenhouse	
4	Mr. Yash patel	Dissolution apparatus for tablets and capsule dosage form	
5	Ms. Bhoomi patel	Thermogravimetric analyzer for measurement of thermal stability of materials	
6	Ms. Jankhana baraiya	Thin layer chromatography machine	
7	Ms. Jyoti Verma	Thin layer chromatography machine	
8	Mr. Kamalesh Mistry	Comparative evaluation of In-situ gels and films of	
		sulfasalazine for the treatment of duodenal ulcer	
9	Ms. Varsha Nadkar	Formulation development, characterization and	
		investigation of anti-inflammatory potential of lumiracoxib topical gel	
10	Ms. Jankhana baraiya	Automatic heavy duty herbal medicine extractor	
11	Mr. Soumyaranjan Biswal	Phototherapy apparatus for investigating antipsoriatic activity in animals	
12	Ms. Rekha Rani	Portable cryo-electron microscopy	
13	Ms. Jyoti Verma	Herbal composition for the prevention and treatment	
		of polycystic ovary syndrome	
14	Mr. Kamalesh Mistry	Pharmacological evaluation of fixed dose combination	
		of saffron and turanj peel extract against doxorubicin	
		induced myocardial toxicity in rats	
15	Dr. SanjeshKumar G. Rathi	Modified reciprocating type dissolution apparatus	
16	Mr. Yash patel	Autoclave for ultra-clean sterilization in pharmaceutical laboratories	
17	Mr. Anupam Sahoo	Development and validation of lipid-based micro	
		suspensions for ophthalmic delivery of tobramycin	
18	Mr. Nitesh Ranjan Parida	Development, characterization and pharmacological	
		evaluation of colloidal gold nanoparticles	
19	Ms. Jayalekshmi M	Orthopaedic support for healing diabetic foot ulcer	
20	Ms. Rekha Rani	Pharmaceutical filing machine for antibiotic vials	
21	Ms. Jayalekshmi M	Pharmaceutical filing machine for antibiotic vials	
22	Ms. Varsha Nadkar	Pharmaceutical filing machine for antibiotic vials	
23	Ms. Rekha Rani	Artificial intelligence based muffle furnace	
24	Mr. Shubham Singh	Non-invasive brain scanning device for neuro defects	
25	Mr. Pratyush Kumar Brahma	Non-invasive brain scanning device for neuro defects	
26	Mr. Mitul Bhoi	Non-invasive brain scanning device for neuro defects	
27	Dr. Sanjesh Kumar Rathi	Portable medical device for estimation of duodenal ulcer	

#### **DETAILS OF RESEARCH/ REVIEW PAPER PUBLICATIONS**

1	Dr. Sanjesh G. Rathi	Development and validation of stability indicating assay development for enzalutamide in standard and dosage form by RP-HPLC method
2	Dr SanjeshKumar G Rathi	formulation and evaluation of solifenacin succinate sublingual tablets
3	Dr. Bhoomi Patel	Central composite design expert-supported RP-HPLC
4	Dr. Sanjesh G. Rathi	optimization and quantitative evaluation of Efonidipine Hydrochloride Ethanolate & chlorthalidone in tablet formulation and evaluation of selexipag sublingual tablets
5	Ms. Varsha Nadkar	Pharmacological investigation of antioxidants and antidiabetic activity of Vitex trifolia Bark in diabetic Zebrafish Model
6	Ms. Varsha Nadkar	QSAR studies of some phenoxy acetamide derivatives as selective MAO-B inhibitors
7	Mr. Shubham Singh	Role of computational biology in the diagnosis of
122		neurodegenerative disorders
8	Dr. Sanjesh G. Rathi	Role of computational biology in the diagnosis of
_	D. C. Land C. D. H.	neurodegenerative disorders
9	Dr. Sanjesh G. Rathi	Potential role of 3D printing in Cosmeceuticals: systemic Review
10	Mr. Shubham Singh*	A Comprehensive Review on Ulcer and their Treatment
11	Dr. Sanjesh G. Rathi	A Comprehensive Review on Ulcer and their Treatment
12	Dr. Bhoomi Patel	A Comprehensive Review on Ulcer and their Treatment
13	Dr. Bhoomi Patel	Development of RP- HPLC method of tizanidine HCL with
		some validation parameter
14	Dr. Bhoomi Patel*	Formulation and evaluation of drumstick leaves tablet as
		an immunomodulatory- REVIEW
15	Mr. Shubham Singh*	Formulation and evaluation of drumstick leaves tablet as
		an immunomodulatory- REVIEW
16	Dr. Sanjesh G. Rathi	Formulation and evaluation of drumstick leaves tablet as
		an immunomodulatory- REVIEW
17	Dr. Bhoomi Patel	Formulation and evaluation of drumstick leaves tablet as
		an immunomodulatory- REVIEW

#### **DETAILS OF BOOK/ BOOK CHAPTER PUBLICATIONS**

1	Mr. Kamalesh Mistry	Book: Novel aspects on pharmaceutical Research Chapter 6 -In vivo Antitumor Activity of Novel 3, 4 di- Substituted Quinazoline Derivatives: A Novel Approach	ISBN:9788119491322
2	Dr. Sanjeshkumar Rathi	Documentation and regulatory writing	ISBN:9788195979882
3	Dr. Bhoomi Patel	Industrial pharmacy-l	ISBN:9781543347609
4	Mr. Yash Patel	Industrial pharmacy-l	ISBN:9781543347609
5	Dr. Sanjeshkumar Rathi	Industrial pharmacy-l	ISBN:9781543347609
6	Mr. Soumyaranjan Biswal	Book: Futuristic Trends in Medical Sciences Chapter 8: Stem cell, stem cell based therapy & it's promising application on chronic and life threatening disorders: A Review	ISBN:9789395632928
7	Mr. Kamalesh Mistry	Herbal drug technology	ISBN:9789395074926
8	Mr. Kamalesh Mistry	Textbook of pharmacognosy & phytochemistry-II	ISBN:9788197297320
9	Dr. Bhoomi Patel	Book:-Pharmaceutical research- Recent advances and tends Vol.2 Chapter:- development and validation for simultaneous estimation of Lamivudine & Zidovudine in Tablet by RP-HPLC Method	ISBN:9788197392429

Ms. Jankhana Baraiya received the prestigious Best Research Award from Sun pure Research Incubation Centre, recognizing her outstanding contributions to the field.





Ms. Bhoomi Patel has successfully completed her Ph.D. from RK University, Rajkot, Gujarat, and is now proudly recognized as Dr. Bhoomi Patel. Her achievement marks a significant milestone in her academic and professional journey.

Congratulations!



#### **DEPARTMENT TOPPERS OF 2023-2024**

#### B. PHARM (2020-2024 BATCH) - SGPA TOPPERS



Rawal Shaswat M. U42000003293 8.64 SGPA | 1st RANK



Tonching Yangmai Chang U42000003287 8.64 SGPA | 1st RANK



Dadhaniya Bansi P. U4200003291 8.45 SGPA | 2nd RANK



Uzmah Girach U42000003656 8.27 SGPA | 3rd RANK

# B.PHARM Semester- VI (2021-2025 BATCH) CGPA TOPPERS



Lama Sheetal Lapka U42000003779 9.33 CGPA | 1st RANK



Viral U42000004060 9.30 CGPA | 2nd RANK



Nayak Tanviben A. U42000003968 9.05 CGPA I 3rd RANK

#### B. PHARM SEMESTER- IV (2022- 2026) - CGPA TOPPERS



Sneha Kumari U160292022F201001 9.85 CGPA | 1st RANK



Vikash Kumar U160292022F201034 9.41 CGPA | 2nd RANK



Chudasama Meeraba U160292022F201022 9.30 CGPA | 3rd RANK

## B. PHARM SEMESTER -II (2023- 2027 BATCH) - CGPA TOPPERS



Sheetal Rautary RU230355 9.56 CGPA | 1st RANK



Rao Kunjal RU230347 9.33 CGPA | 2nd RANK



Mandoli Aarya RU230324 9.28 CGPA | 3rd RANK

#### **PLACEMENT DRIVE**

On March 15, 2024, a successful placement drive was conducted for B. Pharm and D. Pharm students at Rai University. The event saw participation from Apollo Hospital and several other reputed companies in the pharmaceutical and healthcare sectors. The placement drive provided students with valuable opportunities to secure positions in various professional roles. Representatives from the companies conducted interviews and assessments, offering placements to many deserving candidates. The event was well-received, and it highlighted the strong industry connections of the university, ensuring bright career prospects for the participating students.











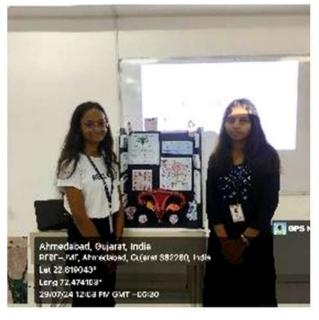


#### **MODELS BY STUDENTS**

Our students demonstrated remarkable creativity and dedication by constructing detailed models of various organs, illustrating the pathophysiology of diseases, and designing instruments for the model pharmacy. They presented their work with confidence, showcasing a deep understanding of the subject matter. This hands-on experience not only enhanced their knowledge but also significantly boosted their confidence in public speaking and scientific communication. Faculty members provided valuable guidance throughout the process, ensuring that the students' work was both accurate and educational. This initiative has greatly contributed to the students' academic growth, fostering a deeper engagement with their studies and practical skills in pharmacy.

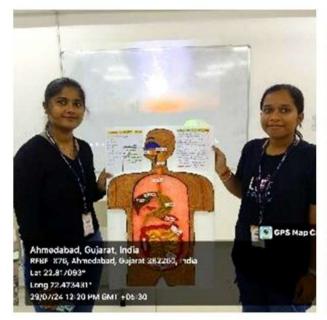








#### SCHOOL OF PHARMACY, RAI UNIVERSITY









SH-144, Village - Saroda, Taluka - Dholka, Dist. - Ahmedabad-382260 Gujarat (India).
E-mail: info@raiuniversity.edu | Web: www.raiuniversity.edu
Mobile: +918980004325