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FORTHCOMING EVENTS

DissoIndia 2024

• Rostrum'2024

• NCIP

· Lakshya Sportz event

• Nirmaquest 2025

28-19th June 2024.

16-17th November 2024.

17-18th January 2025.

1-2nd February 2025

15th February 2025.

Web presence of Institute of Pharmacy, Nirma University:

- Website: https://pharmacy.nirmauni.ac.in/
- Facebook: https://www.facebook.com/NirmaUniPharma
- LinkedIn: https://www.linkedin.com/
- Instagram: https://www.instagram.com/nirma_pharmacy_official/





Inspiring Thoughts... Radiance

UNIVERSITY

INSTITUTE OF PHARMACY

NAAC ACCREDITED 'A+' GRADE

Institute of Pharmacy, Nirma University

Volume 17 | Issue 1 & 2 | March 2023 - February 2024



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DIRECTOR'S DESK

It brings me immense pleasure to present 'Radiance'-Institute of Pharmacy newsletter for the academic year 2023-2024. Our commitment to excellence, innovation, and holistic education has paved the way for several noteworthy achievements in various facets of academia. This year has been marked by a series of enlightening expert lectures, where distinguished speakers shared their insights and experiences. These lectures not only enriched our students' knowledge but also provided valuable insights into the latest advancements and trends in the pharmaceutical industry. The engaging discussions and interactions with experts have undoubtedly contributed to broadening the intellectual horizons of our students. Our students were actively engaged in various events and showcased their talents and enthusiasm. The research endeavors of our students have reached new heights, contributing to the academic excellence of Radiance. Our faculty members have not only guided these endeavors but also made significant contributions to research publications, further establishing our institute as a hub of knowledge and innovation. I extend my heartfelt gratitude to the faculty, students, and staff for their unwavering commitment to excellence. The journey of the Institute of Pharmacy at Nirma University is marked by milestones of success, and I am confident that the upcoming years will see even greater accomplishments. Wishing everyone a restful and rejuvenating break, and looking forward to another year of academic excellence and innovation.



(Prof. Dr. Gopal Natesan)

Director, Institute of Pharmacy

From the Editor's Desk

As we embrace new academic year, it is the time to take a glance at the glorious achievements and events that landmark our Institute's vibrancy. I am grateful to all the editorial board members and all the contributors who have helped shape the present edition of our annual Newsletter-Radiance, Volume 17. In this few-paged compilation, we endeavor to summarize various academic, co- curricular and extra-curricular achievements of students and the faculties, various events hosted by the Institute and the most recent updates regarding various Institutional activities like academic transformation series, International conference hosting and social and extension activities. As we celebrate themes of growth, transformation, and new beginnings, we congratulate all the achievers and wish them to continue with the legacy of the Institute. We hope this newsletter serves as a source of inspiration and encouragement for all and help us navigate through challenges while seizing new opportunities.



You are welcome to share your valuable insights, perspectives and feedback at radiance.ip@nirmauni.ac.in

Dr. Shruti Rawal (Editor)



EXPERT, GUEST AND ALUMNI LECTURES

Various Expert and alumni lectures on various curricular/co-curricular topics are regularly organized at the Institute. The following list provides information on the expert/ Guest/alumni lectures organized from March 2023 to March 2024:

Name of the Expert, Designation and Organization	Title of the Talk	Date
Or. Anupama Ramkumar, Principal Consultant & amp; CEO, Arkus Research Pvt. Ltd.	Equality in an Unequal World: Finding the Signal amidst the Noise	March 7, 2023
Or. Umang Ratani, Business coach, Management consultant, Strategy and Growth Consultant	Entrepreneurship and Innovation Mindset	August 22, 2023
rof. Gopal Natesan, Director, nstitute of Pharmacy	From Idea to Grant: A Roadmap for Writing a Successful Research Proposal	September 11, 2023
or. L Ramasamy, Managing Director of Sotex India Pvt Ltd.	Career Opportunities and How to Build a Career	October 7, 2023
or. Amit Joharapurkar, enior General Manager, Zydus Group	Rediscovering Drugs: Role of Innovation	October 20, 2023
or. Manoj Gadhvi, sssistant Commissioner of the Food and Drug dministration (FDA) based in Gandhinagar	Medical Device Rules, 2017- New Amendments	October 21, 2023
ls. Vandana Modi, Vice President adila Pharmaceutical Herbal Division	Role of Ayurveda in Cosmetics	November 7, 2023
1s. Vikhyati Dedania, o-Founder at Nichessential Care	Current Trends of Cosmetics from Concept to Commercialization	November 7, 2023
Or. Susan Bain, Assistant Professor of Regulatory and Quality Sciences, Department of Regulatory and Quality Sciences, USC Alfred E. Mann School of Pharmacy and Pharmaceutical Sciences, University of Southern California	Navigating the Regulatory Landscape: A Comprehensive Overview of Clinical Trial Requirements and Regulations	Jan 10, 2024
r. Raj Sevak, ssistant Professor, Department of Pharmacy ractice, School of Pharmacy, University of the acific, Stockton, California, USA	Major depressive disorder: pathophysiology, clinical assessment and therapeutic management	Jan 12, 2024
rof. Donatella Boschi, rofessor in Medicinal Chemistry, department of Drug Science and Technology, University of Turin, Italy	Medicinal Chemistry Approaches for Discovery of Antiviral Drugs	Jan 12, 2024
r. Jay R. Anand, ostdoctoral Research Associate, repartment of Pathology and Laboratory Medicine, chool of Medicine at University of North Carolina t Chapel Hill (UNC-CH), US	Genetic Engineering: Mastering the DNA code	Jan 16, 2024
r. Brijesh Srivastava, etired GM of the Medicinal Chemistry Department t Zydus Research Centre, Ahmedabad	The Role & Importance of Research in Drug Discovery and Development	Jan 18, 2024
Ir. Shibu Chakraborty, eneral Manager, Sterilization Products & Services, alesworth Synergies LLP, Bangalore, Karnataka	Introduction to Sterilization Science and Industrial Applications of Biological Indicators	Jan 19,2024
r. Kanan Shah, ead of Innovation and Product Development at Iphamed Ltd, Sydney, Australia	Introduction and Regulations of Herbal Preparations in Australia	Jan 23, 2024
Dr. Anil Jindal, Issociate Professor, Department of Pharmacy, UTS Pilani, Pilani Campus, Pilani.	Simulation modeling for absorption	Feb 1, 2024

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EXPERT, GUEST AND ALUMNI LECTURES

Dr. Nina Muncherji, Chairperson - Organizational Behaviour & Communication Area, Chairperson - MBA (HRM) Programme, Institute of Management, Nirma.	Communication and presentation skills	February 3, 2024
Dr. Kasthuri Venkateshwaran, Senior Research Scientist at the Jet Propulsion Laboratory, California Institute of Technology, USA.	Chemical Frontiers in Space: Managing the Microbial Metropolis.	Feb 14, 2024
Dr. Vivek Nanda, K.D. Hospitals.	CPR training	February 19, 2024
Dr. Shivani Mehta, Assistant Professor at the Institute of Law, Nirma University	The Constitution's Vision of Equality	Feb 21,2024
Dr. Prathap Chandar Manivannan, Associate Professor & Head of the Department of Orthodontics and Pediatric Dentistry at the Faculty of Dentistry, MAHSA University, Malaysia	Outcome-Based Education	March 05,2024
Dr. Anupama Ramkumar, CEO & Principal Consultant, Arkus Research Pvt. Ltd., Ahmedabad	The Evolving Role of the Medical Writer and the Changing Landscape	March 12, 2024
Ms. Puunam Kaushik, Dy. Managing Director and Chief of Corporate Affairs, Meteoric Biopharmaceuticals Pvt. Ltd., Ahmedabad	Find Your Everest	March 20, 2024
Dr. Amit Gupta, Research Manager, Sun Pharmaceutical Industries Ltd., Gurgaon. "	Citing Literature for Formulation Design and Development: An Industrial Perspective".	March 22,2024
ALU	JMNI LECTURES	
Mr. Aalok Shah (03BPH001), Bioanalytical scientist, CSL, Melbourne, Australia.	Education and Professional Opportunities in the USA	March 7, 2023
Mr.Jay Bhatt (04BPH072), Lead Digital Pathology Business Analyst, Genentech, CA, USA	Margdarshan - USA - Panel Discussion	April 1, 2023
Ms. Maitri Mehta (10BPH082), Senior Tech Writer, Supervisor- Labeling at Roche Molecular Systems , Branchburg, New Jersey, USA	Margdarshan - USA - Panel Discussion	April 1, 2023
Ms. Aakruti Sharma (14BPH002), Clinical Research Associate (CRA), University of Alabama, Birmingham, Alabama, USA	Margdarshan - USA - Panel Discussion	April 1, 2023
Ms. Khyati Ashtekar (14BBPH038), Senior Regulatory Affairs Specialist at Medtronic, San Francisco, California, USA	Margdarshan - USA - Panel Discussion	April 1, 2023
Ms. Anjali Yadav (15BPH014), PhD Candidate, St. John's University, New York, USA	Margdarshan - USA - Panel Discussion	April 1, 2023
Mr. Kunj Thakkar (16BPH046), PharmD Scholar, MCPHS university, Worcester, MA, USA	Margdarshan - USA - Panel Discussion	April 1, 2023
Mr. Kunj Vyas (18BPH043), Research Scholar, Long Island University, New York, USA	Margdarshan - USA - Panel Discussion	April 1, 2023
Ms. Shivangi Kaul (16MPH114), R & D Associate, Unilever, Mumbai	Cosmetic Products: Concept to Commercialization	April 7, 2023
Dr. Piyush Gedia (16ftphdp43), Research Scientist, Atlas Life Sciences, Ahmedabad	Effective monitoring of organic chemistry synthesis-Hands-on-training	April 10, 2023
Ms.Angana Shashtri (12BPH005, 16MPH802), Senior Executive, Regulatory Affairs, Intas Pharmaceuticals Limited, Ahmedabad	Regulatory submission requirement in EU	April 21,2023

EXPERT, GUEST AND ALUMNI LECTURES

Ms. Nupur Shah (15MCT109), Chief Executive, Cyano Pharma Pvt. Ltd., Bhopal	Evaluation and Assessment of Skincare Products	April 21, 2023
Mr. Manan Shah (16FTPHDP41), Assistant Manager, Pharmacovigilance, Zydus Lifesciences Limited, Ahmedabad	Pharmacovigilance System, PSMF, QPPV and Audit	April 21, 2023
Mr. Ravi Shah (07MPH206), Lead Quality Assurance Specialist, Cytel Inc. India Ahmedabad	Personal Career Opportunity in Clinical and Non Clinical Areas	April 26, 2023
Dr. Hiren Khatri (05MPH002), Designated Partner, Tarushi Formulations LLP, Ahmedabad	Research and business opportunities in herbal products	April 25,2023
Ms. Molisha Soni (14BPH053, 18MPH209)	Elementary Fundamentals of Drug Discovery and Development	April 22,2023
Dr. Omkar Sherikar (09FTPHDP3)	Analytical Method Validation	April 29,2023
Ms. Niayti Pandya (11BPH041, 15MCT104)	Principles of formulation and building blocks of Skin care products	May 01, 2023
Ms. Bhoomi Akhani (14BPH012, 18MPH201)	Role of project Management BA/BE Studies	May 06, 2023
Ms. Rutwa Soni (18MPH805)	How Lobbying Blocked European Safety Checks for Dangerous Medical Implants	May 01, 2023
Ms. Archi Shah (18BPH005)	Cardiac Cycle - Fundamentals of cardiovascular Physiology	May 26, 2023
Dr. Nirzari Gupta (11MPH604), Senior Manager, Staff Fellow, Analytical Chemist, FDA, USA	Regulatory perspective on chromatographic and spectroscopic analytical techniques during a public health emergency	Nov 7, 2023
Ms. Urmi Vora (18MPH212), Pharmacovigilance Officer- Senior Executive at Wipro Limited, Pune	Al Implications in Clinical Pharmacy	Nov 8, 2023
Mr. Dixit Prajapati (04BPH081), Quality Assurance Manager, Amneal Pharmaceuticals Limited, Ahmedabad, Gujarat	Aseptic Practices in Pharmaceutical Industries	Jan 08, 2024
Mr. Sunil Patel (10MPH408), Senior Research Scientist II, O2h Discovery Pvt. Ltd., Ahmedabad	Organic Synthesis in Drug Discovery	Jan 11, 2024
Mr. Vraj Mehta (13BPH101, 17MPH212) Pharmacy Assistant in NHS Community Pharmacy, Nottingham, UK	Working in Community Pharmacy in UK	Jan 23, 2024
Ms. Disha Patel (20 MPH202), Clinical Research Associate at Lambda Therapeutic and Research.	BA/BE Studies in CRO	Feb 10, 2024
Ms. Dhwani Thakkar (20MPH201) Clinical Pharmacist at Saskatchewan Health Authority, Regina, Saskatchewan, Canada	Pharmacist's Role in Prescription Handling: Canadian Pharmacy Perspective	Feb 25, 2024
Mr. Yash Prajapati, alumnus of batch 2012, B.Pharm, Practice Development Manager at Align Technology – Gujarat (Medical Device).	Scope of Sales and Marketing in the Pharmaceutical Industry	March 14, 2024
Mr. Swastik Suthar, alumnus of the 2018 M. Pharm. program.	Regulatory aspects for the design and development of medical device	March 27, 2024
Rushabh Shah (18BPH080), pursuing M. Tech (Pharm) in Pharmaceutical Technology Process Chemistry from NIPER-Mohali	Tips and tricks to crack GPAT exam	March 29, 2024

EVENTS EVENTS

Seminar on drug delivery (SNDD 2023) at IPNU

Department of Pharmaceutics, Institute of Pharmacy, Nirma University in association with Centre for Advanced Instrumentation (CAI) and Centre for Continuing Education (CCE), Nirma University organized a One-day seminar on nano-drug delivery (SNDD) on March 24, 2023. Dr. Sanju Dhawan, Director of Research and Development, Baxter Pharmaceuticals Inc. was the Chief Guest in the Inaugural Programme. Dr. Rakesh Tekade, Associate Professor, National Institute of Pharmaceutical Education and Research-Ahmedabad, and Dr. Riddhish Patadiya, Manager, Formulation Development, Emcure Pharmaceuticals Pvt. Ltd. delivered expert talk in the seminar. Speakers gave the update on the recent advancements and challenges faced by the researches at Industrial and academia forefront by nanotechnology and nanomedicines. The seminar not only provided theoretical knowledge, but also offered state-of art knowledge through practical demonstration of equipment such as high shear homogenizer, high pressure homogenizer, particle size analyzer, lipid extruder, electrospinning device, cascade impactor and 3-D printer. About 45 participants attended the seminar.



Seminar on "Recent Advancement in Analytical Characterization of Biotherapeutics/Biosimilars:

Department of Pharmaceutical Analysis, Institute of Pharmacy organized a Seminar on "Recent Advancement in Analytical Characterization of Biotherapeutics/Biosimilars" on March 6, 2023 in association with Centre for Continuing Education, Nirma University. Dr. Parv Purohit, Sr. Vice



President R&D, Kashiv BioSciences Pvt. Ltd. was the Chief Guest in the Inaugural programme. Dr. Vadi Raja, Agilent Technologies, Dr. Sujata Halder, ZRC, Dr. Ravi Shah, NIPER-Ahmedabad were invited to deliver talk in the seminar. Speakers gave the update on the recent advancement in the analytical characterization of the biotherapeutics/biosimilars like post translational modification of therapeutic protein, process related impurity and HCP analysis, high order structural mapping of therapeutic protein using High end sophisticated techniques like LC- HRMS/MS. About 32 participants participated in the seminar.

Patent Workshop at IPNU

A one-day Seminar Workshop and Hands on Training for "Prior Art Research and Patent Drafting for Pharmaceuticals" Under the Aegis of IQAC-I, was held on March 13, 2023 for faculty members and full-time Ph.D. students. Dr. Sanjay Toshniwal, Central Council Member, Pharmacy Council of India and Director, Vidarbh Institute of Pharmacy, Washim delivered a talk on the topic "IPR: Innovation, Economics and Access". Followed by that a hands-on training for patent drafting was conducted by Dr. Toshiniwal. The PhD students and Faculty members were delighted to gain insights regarding different aspects of patent drafting like title, abstract, scope of invention, detailed description and claims with examples.

NIRMAQUEST 2023

Institute of Pharmacy, Nirma University organized "NIRMAQUEST'23" (An Arena of State Level Quiz Competition for Pharmacy and other disciplines) on March 3, 2023 for the students of Pharmacy, and other Disciplines. Dr. Mukesh Kumar, Director, Ortiv-Q3 Research Pvt. Ltd., Ahmedabad was the Chief Guest of the Inaugural Function. Total 52 teams from various Institutions of Gujarat state participated enthusiastically in the event.



Scientific Writing Workshop at IPNU

Institute of Pharmacy, Nirma University (IPNU) organized a one-day Scientific Writing Workshop-2023 with hands-on-training session under the auspices of IQAC-I and UG

research Council (UGRC) on April 17, 2023. The workshop had been organized for the graduate, post- graduate, doctorate students and faculties to help them cultivate and strengthen their scientific writing skills. Dr. Harish Padh, Provost, Vice Chancellor, Vanita Vishram Women's University, Surat (ex-vice chancellor at Sardar Patel University, Anand, Vallabh Vidyanagar), Dr. Renuka Mishra, Director at Scissential formulation development consultant, Ahmedabad, Dr. Shraddha Bhadada, Consultant Medical Writer at Turacoz healthcare solutions. Ahmedabad, and Dr. Karla- Mercado-Shekhar, Assistant Professor, Dept. of Biological engineering, IIT, Gandhinagar delivered expert lectures on diverse and pivotal aspects of scientific writing. These encompassed the research writing methodology, plagiarism, types of documents in scientific writing, literature search tools, research paper writing tips to write effectively and hands-on training on the same. More than 120 participants attended the workshop.



Workshop on Demonstration of Pharmaceutical Equipment and Software:

This seminar and workshop was organized for technical skill development of pharmacy students and to prepare them to



meet the current challenges of the pharmaceutical industry on 31st May 2023. Around 30 students from various states of the country participated enthusiastically in the seminar. Dr. Stephen F. Amato, Dr. Sanjay Garg and Dr. Amit Khairnar were invited to delivered the session. In second half workshop for demonstration of various equipment like HPLC, FT-IR, HPTLC, Texture Analyzer, DSC, FBD, E-Spin, 3D Printer, Cascade Impactor, HPH, ELISA Plate reader, Hemato analyser etc. was given. Along with that demonstration of software like design expert, Gold and eCTD was given which are widely used in pharmaceutical industry. Around 30 participants have attended the seminar and workshop. Excellent feedback was received from the participants.

USP India Workshop on Dissolution Performance Verification Testing

USP India Workshop on Dissolution Performance Verification Testing was organized at Institute of Pharmacy, Nirma University on 5th July 2023. United States Pharmacopoeia (USP) and Society for Pharmaceutical Dissolution Science (SPDS) collaborated with SOTAX India Pvt. Ltd and Chromachemie Laboratory Pvt. Ltd. to organize the Workshop. Dr. L Ramaswamy, General Secretary SPDS & Managing Director, SOTAX India Pvt. Ltd., Dr. Mark Liddell, Manager, Dosage Form Performance Laboratory, USP, Dr. Matru Prasad, Senior Director, USP, India, Mr. Munish Buch, Head, Analytical Development, R & D, Emcure Pharma Ltd and Mr BRS Rao, Managing Director, Chromachemie Lab Pvt. Ltd. graced the function. Dr. Mark Liddell, Manager, Dosage Form Performance Laboratory, USP delivered a talk on Compendial Dissolution Testing and gave a demonstration of Dissolution Performance Verification Testing. Mr. Munish Buch, Head, Analytical Development, R & D, Emcure Pharma Ltd. gave a talk on Dissolution Testing Perspective from Pharma Industry. Delegates from various pharmaceutical industries, faculty and students of Institute of Pharmacy, Nirma University actively participated in the Workshop.

Prof. Priti Mehta, Chair Professor & Head, Dept. of Pharmaceutical Analysis coordinated the Programme from Institute of Pharmacy.



EVENTS EVENTS

Orientation Programme 2023

Institute of Pharmacy, Nirma University has organized an extensive one-week Orientation Programme for new entrants of Pharm. D and M. Pharm Programme from 3rd August 3 to 9th August, 2023. The event aimed to welcome and introduce the fresh batch of aspiring pharmacists to the academic community, providing them with essential information, guidance, and inspiration for their educational iourney ahead. Dr. Kiran Marthak, a renowned figure in the industry and the Director of Veeda Clinical Research and Veeda Oncology Incorporation, honored the event as the Chief Guest. Dr. Anup Singh, Director General of Nirma University, presided over the function, emphasizing the university's commitment to nurturing future pharmaceutical professionals. During the programme, the students were familiarizing with the academic framework, resources, and support systems available to them. The closing ceremony of the Orientation Program for New Pharmacy Entrants was held on August 9, 2023, which was an unforgettable event that marked the culmination of an engaging and informative journey on the incoming batch of aspiring pharmacists. A significant highlight of the closing ceremony was the initiation of the White Coat Ceremony, a tradition that held special meaning for the new pharmacy entrants. During the White Coat Ceremony, each student was presented with a pristine white coat signifying their commitment to professionalism, ethics, patient care and students taken the pharmacy pledge that emphasizes their commitment to uphold the ethical standards and responsibilities of their chosen profession



Pharmacist Day Celebration

The Pharmacist Day Celebration was held on September 8, 2023, with the theme "Pharmacists Strengthening Health

Systems: Angadaan Mahadaan" focused on promoting organ donation organized by Institute of Pharmacy, Nirma University in association with Pharmacy Council of

India. The event was graced by distinguished guests, including Shri Dilipbhai Deshmukh Dada, a renowned Social Worker in the fields of Environment and Education, Honourable Dr. Montukumar M Patel, President of the Pharmacy Council of India, and Shri Ranjit Kumar Jha, President of Mahamana Malaviya Mission, Gujarat & Director of Instacare Healthcare and Nutraceuticals.



Industry visit

M. Pharm Semester I students from the Department of Pharmaceutics and Department of Pharmaceutical Analysis had a remarkable visit to Ortiv Q3 on September 11, 2023. Special thanks to Dr. Mukesh Kumar, Dr. Pawan Gupta, Dr. Ashish Gupta, Ms. Anchana, and Dr. Keyur for their warm welcome and invaluable insights into Formulation and Analytical Development.



During this visit, our students delved into the world of cutting-edge Formulation and Analytical Development processes. They witnessed state-of-the-art facilities, engaged with industry experts and ignited their passion for pharmaceutical innovation in these crucial areas.

Counselling session on World Pharmacist Day:

The counseling session on "Safety in Polypharmacy: A Geriatric Perspective" organized by Institute of Pharmacy, Nirma University as part of World Pharmacists Day at the Hiramani Old Age Home on September 25, 2023, was a resounding success. It not only provided essential information about medication safety but also fostered a sense of empowerment among the elderly residents, enabling them to make more informed choices about their healthcare. Many residents expressed gratitude for the opportunity to learn about polypharmacy and medication safety. They reported feeling more empowered to take control of their health and medication management. Along with this activity, Dr Poorvin Shah from the prestigious KD Institute of Physiotherapy promoted the significance of health and fitness. This even was marked by his engaging activities that followed a compelling session on the importance of exercise after 50 years of age. Overall, the Pharmacist Day celebration event exemplified the valuable role that pharmacists play in promoting health and wellbeing in our communities, particularly among our senior citizens.



Foundation Day Celebrations

The 20th Foundation Day Celebrations of Institute of Pharmacy, Nirma University (IPNU) on September 30, 2023,



marked a significant milestone in IPNU journey of academic excellence. The event was graced by the presence of Prof. C.G. Joshi, Director, Gujarat Biotechnology Research Centre, Gandhinagar as the esteemed Chief Guest, while Dr. Anup Singh, Director General, Nirma University presided over the function, adding an aura of distinction to the occasion. The function commenced with a warm welcome by Prof. Gopal Natesan, Director, Institute of Pharmacy and he also took the opportunity to present the annual report highlighting the major achievements and accomplishments by the Institute in 2022-2023. A short documentary on the Institute of Pharmacy was shown and a new logo made by the students to commemorate the 20 years of IPNU was launched. In recognition of the exceptional research contributions by our faculty members, Research Awards were presented, honouring their valuable contribution to various fields of knowledge. These awards served as an encouragement for further ground breaking research endeavours. The programme concluded with a Vote of Thanks by Dr. Udit Chaube, Coordinator of Foundation Day Celebrations 2023.

Rostrum 2023

Institute of Pharmacy, Nirma University recently celebrated its annual cultural program, ROSTRUM 2023: Vibrant Vistas, on 28th and 29th of October, 2023. This event represented an extraordinary journey showcasing talent, creativity and unwavering determination. Rostrum 2023 stands as a testament to the spirit and enthusiasm of the Institute of Pharmacy students. The event featured a wide array of activities, including singing, dancing, drama, AD-MAD, Mr. and Ms. Rostrum contest, Musical Instruments competition, Pinnacle, street play/mime performances and monoacting/mimicry. Expert judges from the respective fields evaluated the participants and over 250 students wholeheartedly participated in these activities. The "Valedictory Function and Prize distribution ceremony" of Rostrum 23 was graced by the presence of Mirchi RJ MIT, a prominent Radio Jockey, YouTube personality and social media influencer, who was the Chief Guest of the function. With 15 electrifying events spanning a wide range of talents,



EVENTSEVENTS

our students showcased their creativity, knowledge and skills, making each moment of this event an unforgettable experience. The event was a resounding success, bringing joy to all the faculty, staff, and students of the Institute of Pharmacy.

A Hands-On Training for Development and Optimization of Herbal Cosmetics:

Department of Pharmacognosy, Institute of Pharmacy, in association with Center for Continuing Education (CCE), Nirma University organized a "A Hands-On Training for Development and Optimization of Herbal Cosmetics". Ms. Vandana Modi, Vice President Cadila Pharmaceutical Herbal Division was the Keynote Speaker of the Workshop and she delivered a talk on "Role of Ayurveda in Cosmetics". Mr Mihir Bhatt, Sr. Executive F & D, Mikasa Cosmetics conducted hands-on training for participants. Ms. Vikhyati Dedania, Entrepreneur, conducted an expert talk on "Current Trends of Cosmetics from Concept to Commercialization." Around 45 UG, PG, PhD students and faculty members of different pharmacy colleges participated enthusiastically in the Workshop.

NSS Residential Camp:

Institute of Pharmacy, Nirma University organized a 7-day residential camp under the aegis of NSS activity during 16 to 22 Dec 2023 at Hirpura village, Vijapur Taluka, Gujarat. A team of 28 student volunteers, headed by Dr. Udit Chaube, Programme officer and Assistant Professor, Department of Pharmaceutical Chemistry actively participated in the same. Various social activities including the Tree Plantation Drive, Awareness regarding Heath, Hygiene, Cleanliness Drive, Elocution Competition for awareness related to alcohol and tobacco, health check-up camp, Road safety awareness drive and Sports Activity were performed at the village by the NSS unit team.



One-day scientific writing seminar:

The Institute of Pharmacy, Nirma University, organized a One Day Scientific Writing Seminar under the auspices of IQAC-I on Jan 06,2024.Prof. Dr. Gopal Natesan, Director of the Institute, initiated the

seminar with a warm welcome note. Distinguished speakers, including Dr. Amit Khairnar, Senior Research Group Leader from FNUSA, ICRC, Brno, Czech Republic, Dr. Hetal Shah, Founder Director of Mewrit, and Dr. Pallav Sengupta, Assistant Professor in Physiology at the College of Medicine, Gulf Medical University, UAE, shared insights on fundamental aspects of scientific writing, the essentials of biomedical publications and the utilization of large language models in scientific writing. PhD and PG students of Institute of Pharmacy, Nirma University actively engaged in the seminar, acquiring valuable knowledge on diverse elements of scientific writing. Prof. Jigna Shah, Coordinator of IQAC-I, concluded the program with a vote of thanks.

Erasmus Plus mobility exchange program:

Professor Marco L. Lolli, the CEO of Beenext s.r.l. and an Associate Professor of Medicinal Chemistry at the University of Turin, Torino, Italy, along with Professor Donatella Boschi, Dr. Stefano Sainas, and Dr. Valentina Boscaro, participated in the Erasmus Plus mobility exchange program at the Institute of Pharmacy, Nirma University. The program took place from January 7th to January 16th, 2024. Throughout this exchange, Prof. Lolli and his colleagues engaged with the Director General of Nirma University and faculty members from the Institute of Pharmacy, Nirma University, to strategize the implementation of a dual degree program for PhD students and explore opportunities for research collaborations. Additionally, they conducted expert lectures for B. Pharm and Pharm. D students during their visit.

Workshop on Impurity Insights:

Impurity Insights, a US Pharmacopoeia Initiative in collaboration with the Society for Pharmaceutical Dissolution Science (SPDS) and the Department of Pharmaceutical Analysis, Institute of Pharmacy, Nirma University was organized at Institute of Pharmacy, Nirma University, Ahmedabad on January 25, 2024. The seminar delved into the intricacies of managing organic and inorganic impurities with a focus on key USP General Chapters. Series of talks on topics ranging from the International harmonization process for USP general chapter



<621> to Impurities & Forced Degradation studies as well as value beyond Vials & Risks associated with secondary standards to name a few. It also emphasized the significance of Pharmaceutical Analytical Impurities (PAI), and Reference Standards (RS). Dr. Antonio Hernandez Cardoso, Senior Principal Scientist, USP; Dr. Mukesh Kumar, Founder Director, Otriv-Q3 Research Pvt. Ltd and representative of SPDS; Dr. Ravi Reddy, Vice President, RSD group, USP and Dr. Kailash Asati, Zydus Lifesciences Ltd. addressed the audience. Mr. R. Kartik Iyer, Associate Director, Strategic Customer Development, USP; Ms. Zeenat Khan, Associate Director, SCD and Mr. KRC Reddy, Chief Business Officer, Chromachemie India Pvt. Ltd. were also present. Delegates from various pharmaceutical industries, faculty, and students of the Institute of Pharmacy, Nirma University actively participated in the seminar, Dr. Nrupesh Patel and Prof. Priti Mehta, from the Department of Pharmaceutical Analysis, coordinated the program from the Institute of Pharmacy.

Anti-Ragging Poster competition:

As a part of anti-ragging activities, the anti-ragging poster competition was organized at the Institute of Pharmacy, Nirma University, on January 9, 2024. The Coordinator of the anti-ragging committee, invited entries from undergraduate and postgraduate students. Around 200 students participated enthusiastically during the event and designed very creative posters.



NIPICON 2024

The 7th Nirma Institute of Pharmacy International Conference (NIPiCON 2024), held from February 7th to 9th, 2024, organized by the Institute of Pharmacy, Nirma University, Ahmedabad, focused on the theme "NextGen Therapeutics: Multidisciplinary Research Approaches for Drug Development and Delivery - Bridging the gaps from drug discovery to patient care". Distinguished speakers and scholars from nations including the USA, Canada, UK, Australia, Malaysia, Singapore, France and Qatar delivered insightful talks, exploring cutting-edge breakthroughs within the pharmaceutical domain. The conference drew the enthusiastic participation of approximately 500 delegates from various regions of India and beyond. The conference

reached its apex with the Valedictory function on 9th February 2024, graced by the esteemed presence of Dr. Puran Sahu, Director & I/c CEO, National Dope Testing Laboratory, Government of India, New Delhi, and Prof. Rosnah Zain, Deputy Vice Chancellor, MAHSA University, Malaysia. Dr. Puran Sahu captivated the audience with his discourse on the multifaceted aspects of dope testing and its research prospects. Prof. Rosnah Zain underscored the imperative of collaborative research in the pharmaceutical field to foster innovative solutions in the healthcare sector. The event also featured the recognition and awarding of certificates and prizes to the victors of the scientific poster competition and oral presentations The students of IPNU showcased innovative projects in the different tracks of (i) Pharmaceutical Technology (PT), (ii) NextGen Therapeutics (NT), (iii) Herbal Technologies (HT), (iv) Translational Medicines (TM). The students of IPNU secured six top positions and received commendations for our students' creativity and scientific acumen as presented in the table.



Self-Defense workshop:

A "Self-Defense Workshop" for girl students of B. Pharm Sem I, Pharm. D First Year, M. Pharm Semester II and PhD scholars (new entrants, 2023 batch) was organized on February 16th, 2024 as a part of Women Development Cell (WDC) activity. Mr. Rushiraj Jaiswal from Rushiraj Karate Kungfu Federation, Ahmedabad conducted the workshop. Through interactive demonstrations and hands on practice,



EVENTSEVENTS

the attendees learned how to recognize and respond to potential threats effectively. Dr. Nagja Tripathi was the coordinator of the event.

Seminar on Nano Drug Delivery (SNDD)-2024:

The Department of Pharmaceutics at the Institute of Pharmacy, Nirma University hosted one-day Seminar on Nano Drug Delivery [SNDD 2024] in collaboration with the Centre of Continuing Education on February 17, 2024, with the aim of providing insights into the latest methods and equipment used in nano-formulations. The event gathered esteemed speakers and participants from academia and industry to share knowledge and foster collaboration in the field of pharmaceutical sciences. The seminar commenced with an inaugural address by the head of the Department of Pharmaceutics, welcoming the esteemed guests and participants. Dr. Tushar Nahata delivered a comprehensive presentation on the advancements in nano drug delivery systems, highlighting the challenges and opportunities in the field. Mr. Suhas Yewale's presentation focused on the latest technologies and equipment available for nanoformulation development, providing valuable insights into the industry perspective. The seminar attracted a total of 62 participants, including faculty members, students, and researchers from various academic institutions. SNDD 2024 served as an exemplary platform for knowledge exchange and networking within the pharmaceutical sciences domain.



One-day workshop on 'Computer Aided Drug Design Software':

The Department of Pharmaceutical Chemistry at Nirma University's Institute of Pharmacy hosted a dynamic one-day workshop on 'Computer Aided Drug Design Software,' in collaboration with Advent Informatics Pvt. Ltd., India, and the Centre of Continuing Education. Dr. Pathan Mohsin Khan, Application Scientist at Advent Informatics Pvt. Ltd.,

Pune, led the introductory session on software and facilitated hands-on training with the MolSoft software. Kudos to Dr. Hardik Bhatt, Dr. Bhumika Patel, and Dr. Tejas Dhameliya from the Institute of Pharmacy for their impeccable coordination.



Medical Writing workshop:

Department of Pharmacology, Institute of Pharmacy, Nirma University organized one-day workshop on Medical Writing under the umbrella of Centre of Continuing Education with the aim to provide the insights on various aspects of Medical Writing, Dr. Anupama Ramkumar, CEO & Principal Consultant, Arkus Research Pvt. Ltd., Ahmedabad graced the event as distinguished guest and dwelled upon the topic "The Evolving Role of the Medical Writer and the Changing Landscape". Dr. Snehal Patel, Associate Professor, Department of Pharmacology, Nirma University conducted the session on "How to Write Abstract" along with Dr. Jigna Shah, Dr. Bhagwati Saxena and Dr. Richa Gupta, Assistant Professor, Department of Pharmacology, Nirma University explained various components of Protocol Writing. Dr. Mithun Singh Rajput and Dr. Anjali Menon, Assistant Professor, Department of Pharmacology, Nirma University, discussed case report form in detail. A total of 52 participants from across the Gujarat have attended the workshop and participated actively. This one-day workshop on Medical Writing provided excellent insights on changing landscape of the medical writing and various component of medical writing such as abstract writing, protocol writing and case report form.

Workshop on analytical Instruments:

The Department of Pharmaceutical Analysis, Institute of Pharmacy, Nirma University, in collaboration with the Centre for Advanced Instrumentation, Nirma University, hosted a one-day event titled "Workshop on Analytical Instruments" under the auspices of the Centre for Continuing Education,

Nirma University. The workshop encompassed comprehensive explanations of various analytical techniques, accompanied by hands-on training sessions on analytical instruments such as High Performance Liquid Chromatograph (HPLC), Gas Chromatograph (GC), High Performance Thin Layer Chromatograph (HPTLC), Fourier Transform Infrared Spectrometer (FTIR), UV-Visible Spectrophotometer, Spectrofluorimeter, Differential Scanning Calorimeter (DSC), and Particle Size Analyzer. A total of 40 participants, including undergraduate, postgraduate, and PhD scholars, as well as faculty members, from various institutes across Gujarat, registered for the event.

NIRMACUP-2024

Institute of Pharmacy, Nirma University organized an inter University sports tournament under the aegis of Student's Welfare Board entitled as, NIRMACUP-2024. The event featured various sports activities for both male and female students, including volleyball, chess and table tennis. More than 220 participants attended the events from more than 22 different universities in Gujarat state. The event was successfully conducted under the leadership of Prof. Dr. Gopal Natesan, President of NIRMACUP-2024 & Director, Institute of Pharmacy, Dr. Mithun Singh Rajput, Sports Coordinator, Institute of Pharmacy, and Dr. Bhavesh Parekh,



Chief Coordinator of Students Welfare Activities at Nirma University and their team. The female team of Volleyball, Nirma University secured the first place while the male team volleyball was runner –up.

Special Events:

Teachers' Day celebrations

The Teachers' Day celebration on September 5, 2023, at Nirma University's Institute of Pharmacy was splendid affair, marked by enthusiasm and a unique charm. During this event, students from various academic levels, including BPharm, MPharm and PhD took on the role of educators, leading academic sessions for PharmD (First Year), BPharm (Sem V and Sem VII) and MPharm in the morning session. In the afternoon, students organized a special program to honor both the teaching and non-teaching staff members.

The students organized various engaging activities such as' Guess the faculty', 'Who is more likely', 'Actor Trademark mimicry', tongue twister etc. for both teaching and the non-teaching staff. Furthermore, the faculty members delighted in 'Guess the drug name', 'Pictionary quiz', 'Debate', the 'faculty memes', and a captivating poem recitation. The event was attended by Prof. Gopal Natesan, Director, IPNU, Prof. Neelima Chauhan, Professor University of Illinois, Chicago, and all the teaching & non-teaching staff, who actively participated in these activities. The celebration concluded with a vote of thanks delivered by Dr. Shruti Rawal, the event coordinator.



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STUDENT RESEARCH

Title of Students Research	Student Name	Guide Name		
	Ph.D. in Pharmaceutical Sciences			
Srashti Verma	Dr. Snehal Patel	Development of a Novel Synthetic Derivative for the Treatment of Diabetes Taking Tyrosine Kinase Inhibitors as A Lead		
Lajja Patel	Dr. Tejal Mehta	Development and evaluation of effective gel formulation for the treatment of keratitis		
Bhavna Bohra	Dr. Bhagawati Saxena	Evaluation of anti-osteoporotic activity in rat models		
Dhvani Padhiyar	Dr. Shital Butani	Design and Development of the Brain-Targeted Intranasal Formulations		
Amanpreet Kaur Kalra	Dr. Shital Panchal	Investigation of selected polyphenols on intestinal permeability and associated cognitive functions		
Rajdeep Dey	Dr. Hardik Bhatt	Design, and Synthesis of Novel Heterocyclic Analogues as Telomerase Inhibitor for the Treatment of Cancer		
Nidhi Saini	Dr. Bhumika D. Patel	Rational Design, synthesis and biological evaluation of novel heterocyclic Parp1 inhibitor as anti-cancer agents		
Rushil Shah	Dr. Nagja Tripathi	Development and Optimization of Herbal Formulation for Management of Eczema		
Aabir Pramanik	Dr. Niyati Acharya	Evaluation of efficacy of phytopharmaceuticals as neuroprotective in neurodegenerative disorders M. Pharm in Pharmaceutics		
Parekh Aman Chiragkumar	Dr. Tejal Mehta	Formulation Development and Evaluation of a Novel Lipid-based Surface Modification Technique for Enhancing the Stability and Reducing the Hygroscopicity of a Bile Acid Sequestrant Hypolipidemic Drug		
Sugandh Atulkumar Sanjay	Dr. Dhaivat Parikh	Formulation Development And Optimization of 3 month long Acting Depot microspheres for the treatment of schizophrenia		
Patel Dhrumil Sajaykumar	Dr. Mohit Shah	Optimizing Drug X Partition Coefficient: A BCS Class III Molecule Approach with Complexation in Tablet Preparation		
Dimpal Dinesh Maurya	Dr. Mayur Patel	Development And Optimization Of Intravenous Lipid Emulsion For Parenteral Nutrition		
Patel Druma Bhadreshkumar	Dr. Mayur Patel	Formulation and Optimization of Modified Release Capsules for the Treatment of Rosacea		
Panchal Harvi Rajeshkumar	Dr. Mayur Patel	Development and Optimization of Formulation for Preparation of Inhalation Suspension for Nebulization Containing Combination of Long-acting Beta-blockers and Corticosteroids For Treatment of COPD		
Ishika Manish Patel	Dr. Jigar Shah	Formulation and characterization of hair leave on product with superior conditioning than oil.		
Khushi Manish Gor	Dr. Shital Butani	Formulation and development of an immediate release tablet for oral suspension of an antineoplastic drug		
Reetisha Mahobiya	Dr. Tejal Mehta	Development and Optimization of long acting in situ implant based formulation of an Anti Psychotic drug		
Shreya Nayanbhai Vipani	Dr. Shital Butani	Formulation, development and characterization of bilayer tablet for the treatment of hyperlipidemia		
Desai Vidhi Sanjivbhai	Dr. Jigar shah	Formulation-Development and optimization of an ER pellets base oral suspension for an anti-epileptic drug		
Vivek Kotak	Dr. Tejal Mehta	Development of VEGF based Mesoporous Silica Nanoparticles for the treatment of Oral Cancer		
Shah Yashvi Vipul	Dr. Mohit Shah	Development of Parenteral Formulation of Corticosteroid		

STUDENT RESEARCH

Shah Hemani Nitesh	Dr. Dhaivat Parikh	Optimization of Anti-Diabetic bilayer tablet employing quality-by-design concepts
Patel Rutujaben Kirneshkumar	Dr. Tejal Mehta	To Investigate the impact of Physical properties of excipients on blend and tablet properties in direct compression using SeDeM technology
	M. Phar	m in Pharmacology
Akash Kewal	Dr. Shital Panchal	Valorization of Therapeutic Potential of a TRPC1 Ion Channel Modulator in Scopolamine-induced Neurodegeneration in Rats
Pandya Dharmil Pankajbhai	Dr. Bhagawati Saxena	Study effect of Turmizn on the Cognitive Impairment due to gut brain axis: A novel approach for treatment of gut brain disorder
Ekta Singh	Dr. Jigna Shah	Aluminum's Impact on Vital Organs: Investigating Remedihys jatamansi
Kirti Mathur	Dr. Anjali Menon	Exploring the neuroprotective role of GLP- 1 secretagogue in rotenone induced mouse model of Parkinson's Disease
Parmar Kreena Rameshbhai	Dr. Bhagawati Saxena	Evaluating the Therapeutic Efficacy of C- Phycocyanin and Gemcitabine Combination in Pancreatic Carcinoma Using Nude Mouse Model
Chhatrola Krishna Rameshbhai	Dr. Snehal Patel	Targeting inflammation in Traumatic brain injury and Neuroprotection through the Phytoconstituent Intervention
Vyas Kuldeep Pradip	Dr. Shital Panchal	Unraveling the Gut brain Axis Remodeling induced by Bacillus coagulans : Implications for Modulating Neuroleptic and antidepressant effect in rat
Pooja N Kotla	Dr. Jigna Shah	"Investigation of the neuroprotective potential of Meloxicam in Streptozotocin induced Alzheimer's disease"
Prateeksha Sharma	Dr. Richa Gupta	The evaluation of neuroprotective activity of DNA polymerase inhibitor against scopolamine induced amnesia model in rats.
Poriya Shruti Kamleshbhai	Dr. Snehal Patel	Identifying the role of TLR 4 mediated Nf- Kb modulation in cadmium induced Neuroinflammation: Protective potential of Quercetin
Khan MD Tahir Ishrak	Dr. Shital Panchal	Pharmacological evaluation of gallic acid, an active constituent from a natural source, for the treatment of diabetic retinopathy.
	M. Pharm in	Pharmaceutical Analysis
Achal Shreyanshkumar Gandhi	Dr. Niyati Acharya	Method Development and Forced Degradation for Sun® peptide using RP- HPLC
Asit Anand	Dr. Nrupesh Patel	Microwave-assisted degradation study of drug excipients using high performance thin layer chromatography
Herma Cyrus Ashok	Dr, Hardik Bhatt	Green Analytical Method Development & Validation of Atenolol using HPLC and HPTLC.
Harshal S Uttwani	Dr. Priti Mehta	RP-HPLC-UV based related substance method development for Carbetocin API and solution for injection.
Rai Harshkumar Vashishthakumar	Dr. Priti Mehta	Forced degradation study of Naphazoline drug substance and eye drop using HPLC.
Parmar Janvikumari Rajeshbhai	Dr, Hardik Bhatt	Green analytical method Develoment and validation of Levobupivacaine Hydrocholride by NP & RP HPTLC and RP-HPLC.
Samdani Jinal Nitish	Dr. Charmy Kothari	Method development and method qualification of IgG1 monoclonal antibody by hydrophobic interaction chromatography.
Oza Nilay Amitkumar	Dr. Nrupesh Patel	Development and validation of RP-HPLC and UV spectroscopic method for simultaneous estimation of Dapagliflozin Propanediol Monohydrate and Linagliptin in synthetic mixture
Pakhi Jain	Dr. Charmy Kothari	Method development and validation of "NCE" using HPLC

STUDENTS' RESEARCH

Patel Pooja Mukeshbhai	Dr. Dipal Gandhi	Analytical Method Development and Validation for The Quantitative Determination of Sitagliptin Phosphate Monohydrate and Dapagliflozin propanediol Monohydrate in Solid Dosage Form by RP- HPLC
Patel Tanvi Sanjay	Dr. Vivek Vyas	Ion Exchange Method Development and Validation of Sun Pharma Peptide
Khandhara Vihar Swetangkumar	Dr. Niyati Acharya	Characterization of IgG1 Monoclonal antibody (mAb – 1) by Different Analytical Methodologies
	M. Pharr	n in Regulatory Affairs
Patel Aneri Samirbhai	Dr. Charmy Kothari	Preparation of CTD and eCTD Dossier for ANDA submission as per USFDA Requirements.
Desai Drashti Chetan	Dr. Udit Chaube	Comparative study of Regulatory Pathways in South Africa and Brazil
Gargi Naginbhai Vaghela	Dr. Nagja Tripathi	Regulatory Pathway for Registration and Dossier Filing of ORS with Zinc in Domestic Market and its comparison with various African countries
Shah Gaurang Bharatkumar	Dr. Hardik. Bhatt	Post approval CMC changes in Brazil and Europe
Pandya Khushi Riteshbhai	Dr. Niyati Acharya	Comparative Study on Current Regulatory Requirements for Generic Peptide-Based Pharmaceuticals in USA and Europe
Shah Khushi Sandipbhai	Dr. Hardik Bhatt	Formal meeting between the applicant and USFDA under GDUFA and PDUFA
Mandar Arvind Kulkarni	Dr. Niyati Acharya	Regulatory strategies and requirements for Pharmaceutical Drug products entering LATAM countries.
Adodariya Meet Vitthalbhai	Dr. Priti Mehta	Image Oncotherapy: A Regulatory Perspective
Singh Ruchi Shitlaprasad	Dr. Charmy Kothari	Proton therapy: Gap analysis and it's regulatory framework in India
Modi Sharvil Dharmendra	Dr. Shital Panchal	A Comprehensive study of MMF and generic drug registration in Ukraine aligning with EMA standards and M3 CTD submission in Ukraine
Kalola Utsavkumar Vinodbhai	Dr. Shital Butani	A regulatory compliances for Food and Nutraceutical products in United States
Patel Yesha Jitendrabhai	Dr. Priti Mehta	Regulatory requirements and Re- registration of Pharmaceutical Product in Republic of Moldova

STUDENTS' CORNER

Student Achievement:

Poster presentation winners:

Ph.D. student Ms. Ritu Soni secured first place in poster presentation competition in Pharmacology category at International conference on "The future of Pharmaceutical drug development: trends, challenges and opportunities" organized by L.J. Institute of Pharmacy, L.J. University, Ahmedabad, Gujarat held on 6th and 7th October, 2023.

Our student, Manmohan Sharma (21FTPHDP77) was awarded 1st prize for scientific poster presentation on the topic "3D-QSAR Studies, Molecular Docking, Molecular Dynamic Simulation, and ADMET Proprieties of Novel PfDHODH Enzyme as PfDHODH Inhibitors for the Treatment of Malaria" at 28th ISCB International Conference (ISCBC-

2024), which was based on the theme "Recent advances in Biological, Chemical, Biotechnological, and Pharmaceutical Sciences for Innovation in Healthcare" jointly organized by the Indian Society of Chemists & Biologists (IscB), Faculty of Science, and Faculty of Pharmacy, Marwadi University, Rajkot, Gujarat, India, held on January 8-10, 2024.

Best thesis award:

Dr. Dhara Bhayani received best Ph.D. thesis award 2020 in the Pharmaceutical Science category from Gujarat Science Academy for her PhD dissertation work entitled, 'Effect of ionizing radiation on the stability of selected drugs and their formulations. She has completed her PhD under the guidance of Dr Priti Mehta, Professor and head, of the Department of Pharm Analysis of the Institute of Pharmacy. The award was conferred on June 17, 2023 at Gujarat University.

STUDENTS' CORNER

GPAT:

Mr. Shiv Patel, B Pharm student (19BPH097) had qualified the GPAT examination 2023 with AIR

59. A total of 15 students had qualified the GPAT Exam in the year 2023.

Ideathon-NIPER Hyderabad pitching competition runner up

Ms. Raveena Udhani, PhD scholar in the Pharmaceutical Analysis Department under the guidance of Dr. Charmy Kothari, has participated in a 3-days Workshop & Hands-on Training program on Paper-based Microfluidics and Lateral Flow Devices, organized by NIPER Hyderabad on July 3-5, 2023 and got the runner-up prize for her novel idea pitch in the Ideathon competition.

B. Pharm student's publications:

Maiti, Ritwik, Bhumika Patel, Nrupesh Patel, Mehul Patel, Alkesh Patel, and Nirav Dhanesha. "Antibody drug conjugates as targeted cancer therapy: past development, present challenges and future opportunities." Archives of Pharmacal Research (2023): 1-28 (IF 6.01).

Niyati Parekh, Sarthak Lakhani, Ayushi Patel, Dhyanesh Oza, Bhumika Patel, Ruchi Yadav, Udit Chaube, Discovery of novel CaMK-II inhibitor for the possible mitigation of arrhythmia through pharmacophore modelling, virtual screening, molecular docking, and toxicity prediction, Artificial Intelligence Chemistry, 2023, 1, 1-6.

Alumni Achievements:

Our Alumni, Dr. Amarjitsing Rajput (14FTPHDP24), Assistant Professor, Poona College of Pharmacy, Bharatividyapeeth Deemed to be University, Pune, has been granted an Indian Patent for his invention entitled "Microneedle Array Patch for Drug Delivery and Production Method Thereof" by the Indian Patent Office, Government of India.

Our Alumni, Dr. Vishal Chavda (16FTPHDP45), Neuroscientist Post-Doctoral Fellow at Stanford University was granted membership in the Globally Renowned Research body, 'Sigma Xi- The Scientific Research Honor Society.

Foundation day felicitations:

Following Students received felicitations on September 30, 2023, Foundation Day for their Outstanding Achievements:

Award	Awardee Name	Award Text
Best Researcher	Manmohan Sharma	Best Research Scholar of the Year
NSS Volunteer	Het Ajitkumar Patel	Best NSS Volunteer of the Year
Sportsperson	Devarsh Sutaria	Best Sportsperson of the Year
Best Student	Kartik Tulsian	Best Student of the Year

Category	Name	Year
Researcher of the Year Award [For PhD Scholars ONLY]	Manmohan Sharma	2022-2023
Best Outgoing Students [For Final Year M. Pharm Students ONLY]	Hemani Shah	2022-2023
Best Outgoing Students [For Final Year B. Pharm Students ONLY]	Kartik Tulsian	2022-2023
Highest Marks in the 3rd Year B.Pharm	Iraja V Shah	2022-2023
Highest Marks in the 2nd Year B. pharm	Himani K Jayswal	2022-2023
Highest Marks in the 1st Year B.Pharm	Dwija J Shrimali	2021-2022
Highest Marks in the 1st Year M. pharm	Khushi S Shah	2022-2023
NCC Cadet of the Year Award	Sanskruti Rathod	2022-2023
Sportsperson of the Year Award	Devarsh R. Sutaria	2022-2023
NSS Volunteer of the Year Award	Het Ajitkumar Patel	2022-2023

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STUDENTS' CORNER

Extracurricular and Co-curricular activities:

One Act Play:

Our students showcased outstanding performances, winning trophies in One Act Play. The spirit of teamwork was evident throughout the event. The One Act Competition was hosted by Institute of Architecture & Planning, under the aegis of Students' Welfare Activities from February 5 to February 8th 2024. The event witnessed enthusiastic participation from teams representing various institutions from Nirma University, showcasing their talents and creativity at the university level. And the team of Institute of Pharmacy, Nirma University secured the winning position. Whereas the following students got the awards for Best actor and best script for the play. Ms. Malya Pandya received the Best Actor Female award, while Mr. Vansh Bafna was awarded for the best script.

Vimukti:

On March 27th, 2024, NSS Unit, Institute of Technology, Nirma University, arranged the dynamic drama competition "Vimukti" that aimed at raising awareness against addiction. The winning team, "The Pharmacist," from the Institute of Pharmacy, Nirma University gave a riveting presentation stressing the dual nature of addiction by emphasizing the medical benefits of substances like alcohol as well as their dangerous effects when overused. Their performance delivered a touching message to the youth, advocating against drug usage with the powerful mantra "we will not take it, we will not allow it."

NIRMACUP-2024:

Institute of Pharmacy, Nirma University organized an inter University sports tournament entitled as, NIRMACUP-2024 during 4th March 2024 to 7th March 2024 under the aegis of Student's Welfare Board. The event featured various sports activities for both male and female students, including volleyball, chess and table tennis catering to diverse interests and abilities. More than 220 participants attended the events from more than 22 different universities in Gujarat state. The girls Winner team for volleyball (NU Team) consisted of 12 players. These players were from various institutes of Nirma University. Parmi Patel (22BPH078) was also a part of winning team.

EUPHORIA'24:

Institute of Pharmacy, Nirma University organized EUPHORIA, talent hunt and Farewell on March 30, 2024 under the aegis of Student's Welfare Board. The event featured with various cultural competition such as Ad-Mad,

Drama, Pinnacle, Singing, Dancing and so on. The students of B. Pharm and Pharm. D first year actively participated in various event and showcased their talent. The memories recreation was done by the final year students of B. Pharm and M. Pharm as a bid farewell. The valedictory ceremony was concluded in the auspicious presence of Prof. (Dr.) Gopal Natesan, Director, Institute of Pharmacy and Mr. Bhavesh Parekh, Coordinator, Student Farewell Board, Nirma University.

ABSTRACTHON by UG Research Council (UGRC):

UG Research Council, Institute of Pharmacy, Nirma University organized a new and unique one- day abstract writing competition "ABSTRACTHON 2023" on March 2 2023. This was the newly introduced competition by the UGRC with an aim to inculcate and imbibe the qualities of reading a review/research article, extracting the essence of the paper and writing concise abstract for the same in the UG students.

Total 71 UGRC students participated in the event. The competition was conducted track-wise; Pharmaceutics, Pharmaceutical Management, Pharmaceutical Chemistry and Pharmacology and was divided in 2 rounds; abstract writing for a review article and then for a research article.

Pill Pitch Challenge-2024

Under the auspices of the Undergraduate Research Council (UGRC) at the Institute of Pharmacy, Nirma University, a pioneering endeavor has been undertaken to foster research among undergraduate students. In line with this mission, the inaugural Pill Pitch Challenge 2024 was organized on March 27, 2024. This competition was designed to address the fundamental aspect of research: the formulation of innovative research or start-up concepts. Dr. Bhagawati Saxena, Event Coordinator and UGRC member, along with Dr. Bhumika Patel, UGRC Coordinator, extended invitations to aspiring participants. A total of 16 teams enthusiastically participated in the competition, presenting their ideas across five research scopes: Wet Lab-based, Marketing/Surveybased, Prototype/Model Making, Start-up Ventures, and App Development. Each team showcased their ideas with commendable proficiency. The esteemed Dr. Iti Gupta, Associate Professor at the Indian Institute of Technology, Gandhinagar, graciously consented to serve as the expert evaluator for the student pitches. The winning teams have been granted seed funding to materialize their innovative ideas into practical ventures. Gupta Krinal, Sevak Khevana, Padhiivar Dhyani and team won the first prize. Shrimali Dwija, Jayswal Himani and Bagadia Kavish won the second prize, while Jani Aashka, Jani Shaili won the third prize. Patel Aarnay and team and Shah Heer and team won consolation prize.

STUDENTS' CORNER

NIRMAQUEST-2024:

Nirmaquest'24 (An arena of state level quiz competition for pharmacy and other disciplines) was organized by the Institute of Pharmacy, Nirma University on March 19th 2024. From captivating competitions to insightful workshops, Nirmaguest'24 was an incredible journey filled with learning, innovation, and endless possibilities. Total 47 teams from various Institutions of Gujarat registered enthusiastically in the event. Dr. Milan Satia, President and CEO, Ethicare Clinical Trial Services, Ahmedabad graced the prize distribution ceremony as the Chief Guest. Vansh Bafna and Piyanshi Shah won the first prize in B category quiz while Shreeraj Chavda and Het Patel won third prize in the same.

Social and Extension Activities:

NSS residential Camp:

Institute of Pharmacy, Nirma University organized a 7-day residential camp under the aegis of NSS activity during 16 to 22 Dec 2023 at Hirpura village, Vijapur Taluka, Gujarat. A team of 28 student volunteers, headed by Dr. Udit Chaube, Programme officer and Assistant Professor, Department of Pharmaceutical Chemistry actively participated in the same. Various social activities including the Tree Plantation Drive, Awareness regarding Heath, Hygiene, Cleanliness Drive, Elocution Competition for awareness related to alcohol and tobacco, health check-up camp, Road safety awareness drive and Sports Activity were performed at the village by the NSS unit team. The guidance provided by Prof. Dr. Gopal Natesan, Director, Institute of Pharmacy, Nirma University, Dr. Bhavesh Parikh, Program Coordinator, NSS (Nirma University), and Dr. Udit Chaube, (NSS Program Officer, Institute of Pharmacy, Nirma University) played a crucial role in the successful execution of this initiative. Their support ensured effective organization and implementation, further amplifying the impact of the voter awareness program.

FACULTY CORNER

Faculty achievements:

Summer Research Fellowship (SRF):

Dr. Tejas M. Dhameliya received Science Academies' Summer Research Fellowship (SRF) 2023 jointly organized by Indian Academy of Sciences (IASc), Bengaluru, Indian National Science Academy (INSA), New Delhi, and National Academy of Science (NASI), Prayagraj under the mentorship of Dr. Chandrakumar Appayee, Associate Professor, Discipline of Chemistry, Indian Institute of Technology, Gandhinagar.

Patents granted:

Name of the Faculty Member	Title of the Patent	Patent filed in which Country	Month/Year of Patent filing	Current status of the Patent (whether Patent granted or not)
Dr. Bhagawati Saxena	Painless Wearable Gadget For Monitoring Blood Glucose Level	UK	24-05-2023	Granted
Dr. Bhagawati Saxena	An Indian Design Patent has been granted for "Portable Device for Uv-C Disinfection	India	24-05-2023	Granted
Dr. Jigar Shah	Pulsatile drug delivery system of leflunomide for the chronotherapy of arthritis	India	23-05-2023	1. Granted
Dr. Bhagawati Saxena	Automated Small Scale Soxhlet Apparatus	India	16-08-2023	Granted
Dr. Mayur Patel, Dr. Shruti Rawal	An Anticancer-Drug Delivery Formulation	India	24-11-2023	Published
Dr. Priti Mehta Dr. Dipal Gandhi	A Method for Isolation of Betulinic Acid from Bark of Plants of Species	India	04-01-2024	Granted
Dr. Mayur Patel	Formulation Comprising Chitosan ethyl cellulose Microspheres For Treatment of Inflammatory Bowel Disease	India	01-02-2024	Granted

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Research Grants:

Our esteemed faculty members namely, Dr. Heena Dave, Dr. Bhumika Patel, Dr. Jigar Shah, and Dr. Shital Panchal, have clinched four remarkable research grants from Gujarat State Biotechnology Mission, (GSBTM), Gujarat.

Dr. Heena Dave received grant worth INR 70,83464 for the research project entitled "Exploring cellular and molecular pathways responsible for Pre metastatic niche to organotropic metastasis in triple negative breast cancer: Uncovering the role of MicroRNAs".

Dr. Bhumika Patel secured grant worth INR 40,75,856 for the project entitled "Hit to lead optimization of NCEs as Selective Poly (ADP-ribose polymerase1) (PARP-1) inhibitors for the treatment of breast cancer".

Dr. Jigar Shah received funding worth INR 24,82,556 for his project entitled "Microneedle based nanoaprticulate system of Bioactive for treatment of Diabetic Retinopathy".

Dr. Shital Panchal received grant worth INR 31,86,320 for her proposal entitled "Investigation of Pathogenesis and Treatment of Leaky Gut Associated Cognitive Decline". Their highly innovative ideas will serve to ameliorate the treatment of various complicated diseases through their research observations.

Dr. Anshu Srivastava, Lecturer, Department of Pharmaceutics, received financial assistance worth Rs. 38,84,880/- for a research project entitled "Modulation of biosynthetic pathway for enrichment of bioactives in Bacopa monnieri using biotic elicitors" from Department of Biotechnology (DBT), Government of India for a period of three years (2023-2026).

Travel Grants:

Dr. Udit Chaube and Dr. Tejas Dhameliya, Assistant Professors, Department of Pharmaceutical Chemistry, received the financial assistance of Rs. 70,133 INR (visa, registration and return airfare) to attend "Drug Discovery and Translational Medicine 2023 (ICDDTM'23), Dec 05-06, 2023" held in Selangor (Malaysia) during Dec 05-06, 2023 through ICMR- International Travel Grant from Indian Council of Medical Research (ICMR), New Delhi

Dr. Richa Gupta, Assistant Professor, Department of Pharmacology received two prestigious international travel fellowship MDS travel award of 1000 USD from International Parkinson and Movement Disorder Society to attend and present a research paper at International Congress of Parkinson's Disease and Movement Disorders at Cophenheghan, Denmark during August 27-31, 2023 and JSN international travel award of 40,000JPY to attend 64th Annual Meeting of Japanese Society of Neurology at Chiba, Japan from May 31 - June 3 2023.

Other major Achievements:

Dr. Mayur Patel have been selected among world's top 2% scientists according to the study published by Stanford University.

Dr Bhumika Patel, Assistant Professor, been invited for delivering the expert talk at International Conference on "In Silico Trends and Approaches in Drug Discovery and Development" organized by the University of Doha for Science and Technology in Doha Oatar.

Dr Hardik Bhatt, Associate Professor and head received the DST SERB grant for attending the ACS Fall 2023 National Meeting was organized by the American Chemical Society from 13th to 17th August 2023 at Moscone Center, San Francisco, CA, USA.

Dr Priti Mehta was awarded with Prof. M. L. Shroff "Pharma Recognition Award" by Team Pharma Lok for immense contribution to the teaching profession and Quality of Enhancement of Pharmacy Education on 5th September 2023.

Expert lecture delivered by Faculties:

Pharm. Chemistry	Dr. Hardik Bhatt	ISCBC-2024, Marwadi University, Rajkot	Development of Novel Substituted 1,2,4 -Triazole Derivatives Targeting Tankyrase as Anti-Cancer Agents	9th January 2024	Expert talk
Pharm. Chemistry	Dr. Bhumika Patel	28th ISCBC-2024 on "Recent Advances in Biological, Chemical, and Pharmaceutical Sciences for Innovation in Healthcare" jointly organized with Department of Chemistry, Marwadi University, Rajkot from 8th - 10th January, 2024 at Marwadi University, Rajkot, Gujarat	Design and synthesis of novel non-NAD+ analogues as poly (ADP-ribose) polymerase1 (PARP1) inhibitors	9th January 2024	Expert talk
Pharma- cology	Prof. Jigna Shah	ISCBC-2024, Marwadi University, Rajkot	Molecular Signaling Pathways and therapeutic approaches for the treatment of breast cancer	9th January 2024	Expert talk

Projects Received:

Pharm. Chemistry	Dr. Tejas M. Dhameliya, Dr. Hardik G. Bhatt, Dr. Vivek K. Vyas	Nirma University	Design, Synthesis, Optimization and Biological Evaluation of Benzothiophene-2-carboxamides as Potential Anti-plasmodial agents	70,000
Pharm. Chemistry	Dr. Tejas M. Dhameliya	Incubation center, Nirma University	Design and Synthesis of Indole-2- carboxamides in search of Potential Antimalarial Agents	2,00,000
Pharm. Chemistry	Dr. Tejas M. Dhameliya	DST-SERB (Teacher Associate Research Excellence)	Design and Development of Anti-cancer Heterocyclic Scaffolds as Type I DNA Topoisomerase (Topo 1) inhibitors	18,30,000
Pharma- ceutics	Dr. Anshu Srivastava	DBT	Modulation of biosynthetic pathway for enrichment of bioactives in Bacopa monnieri using biotic elicitors	38,84,880
Pharma- ceutics	Dr. Anshu Srivastava	Industry (PharmaLab)	Testing and Validation of Prototype for Cold Vaporized Hydrogen Peroxide Sterilization System	20,00,000
Pharma- ceutics	Dr. Tejal Mehta	GSBTM	Fabrication of anti-EGFR and phytoconstituent loaded mucoadhesve electrospun nanofibers mats for improved locoregional therapy of oral cancer	5782608
Pharma- cology	Dr. Jigna Shah (CO- I)	GSBTM	Repositioning Doxycycline as Anti-Cancer Therapy and Exploring its Synergy with extracellular ATP manipulation in Breast Cancer: Pre- Clinical and Early Clinical Exploration (Co-investigator)	5253836
Pharma- cology	Dr. Jigna Shah (CO- I)	GSBTM	Evaluation of chemi-vaccine candidate and novel ionic liquid based adjuvancy for improved efficacy against breast cancer (Co-investigator)	6335856
Pharma- cology	Dr. Jigna Shah	GSBTM	Fabrication of Valacyclovir nanotherapeutics for brain targeting through nose to brain delivery: An effective approach for the treatment of Alzheimer's disease (PI)	4753856
Pharma- cology	Dr. Jigna Shah (CO- I)	GSBTM	Fabrication of anti-EGFR and phytoconstituent loaded mucoadhesve electrospun nanofibers mats for improved locoregional therapy of oral cancer	5782608
Pharma- cology	Dr. Jigna Shah (CO- I)	GSBTM	Therapeutic Targeting of Androgen Receptor as a Biomarker to Improve the Clinical Outcomes of Triple- Negative Breast Cancer	4414856
Pharma- cology	Dr. Mithun Singh Rajput	Nirma University	Valorization of Therapeutic Potential of 2 -Aminoethoxydiphenyl Borate Through Transient Receptor Potential C1 Ion Channel Modulation in Scopolamine- induced Neurodegeneration in Rats: Implications for Tauopathy	70,000
Pharma- cology	Bhagawati Saxena	Nirma University	Evaluation of anti-osteoporotic activity of plant-based silica in experimental model of osteoporosis	90000/-
Pharma- cognosy	Dr. Nagja Tripathi	Nirma University	Formulation and Evaluation of Herbal Nano Formulation for Skin Disorder	100000/-

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Consultancy:

Pharmacology	Dr. Jigna Shah	A. Vankani	February 2023 to February 2024	Evaluation of novel formulation for pharmacological activity	71000
Pharmacology	Dr. Jigna Shah	Intas Pharmaceuticals	May 2023 to May 2024	RBC toxicity study for novel formulations	25000
Pharmacology	Dr. Jigna Shah	D. Patel	June 2023 to August 2024	Evaluation of novel formulation for pharmacological activity	30000
Pharmacognosy	Dr. Shital Panchal	R&D Lifesicences, USA	March 2022 to to June 2024	An open labeled clinical study to evaluate effect of prostate24 on benign prostatic hyperplasia patients	1500000

Faculty felicitation during foundation day:

- Young Research Award: Dr. Udit Chaube
- Research Paper published in Highest Impact Factor: Dr. Hardik Bhatt
- Highest Number of books published: Dr. Niyati Acharya
- · Highest Number of Publications in Scopus-indexed journal as a first author or corresponding author: Dr. Jigar N. Shah

Publications:

- Halder T, Patel B, Acharya N. Asiatic Acid Fabricated Nanoconstructs to Mitigate Amyloid Beta1-42 Induced Injury in SH-SY5Y Cells In-Vitro and Ameliorates Cognitive Impairment by Dual Cholinesterase Inhibition and Attenuation of Oxidative Stress In- Vivo. Pharmaceutical Research. 2023 Jan;40(1):197-213. https://doi.org/10.1007/s11095-022-03428-2.(IF:4.58)
- Hariharan K, Mehta T, Shah J, Dave H, Sami A, Omri A. Localized delivery of erlotinib using liposomal gel formulations for the treatment of oral squamous cell carcinoma. International Journal of Pharmaceutics. 2023 Jul 25;642:123144. https://doi.org/10.1016/ j.ijpharm.2023.123144 (IF: 6.51)
- 3. Dhameliya TM, Devani AA, Patel KA, Shah KC. Comprehensive Coverage on Anti- mycobacterial Endeavour Reported in 2021. ChemistrySelect. 2022 May 19;7(19):e202200921. https://doi.org/10.1002/slct. 202200921(IF:6.7).
- Wal P, Wal A, Saxena B, Mishra S, Elossaily GM, Arora R, Singh C, Sachdeva M, Anwer MK, Gulati M, Behl T. Insights into the innovative approaches in fiber technology for drug delivery and pharmaceuticals. Journal of Drug Delivery Science and Technology. 2023 Aug 24:104877. https://doi.org/10.1016/j.jddst.2023.104877 (IF:5.02)
- 5. Vyas VK, Bhati S, Sharma M, Gehlot P, Patel N, Dalai S. 3D-QSAR-based design, synthesis and biological

- evaluation of 2, 4-disubstituted quinoline derivatives as antimalarial agents. SAR and QSAR in Environmental Research. 2023 Aug 3;34(8):639-59. https://doi.org/10.1080/1062936X.2023.2247326 (IF:3)
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- 8. Hariharan K, Mehta T, Shah J, Dave H, Sami A, Omri A. Localized delivery of erlotinib using liposomal gel formulations for the treatment of oral squamous cell carcinoma. International Journal of Pharmaceutics. 2023 Jul 25;642:123144. https://doi.org/10.1016/j.ijpharm .2023.123144 (IF: 5.8).
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- 10. Vyas VK, Shukla T, Sharma M. Medicinal chemistry approaches for the discovery of Plasmodium falciparum

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dihydroorotate dehydrogenase inhibitors as antimalarial agents. Future Medicinal Chemistry. 2023 Jul;15(14):1295-321. https://doi.org/10.4155/fmc- 2023-0113 (IF: 4.2)

- 11. Mehta CC, Rohit S, Patel S, Bhatt HG. New molecular insights for 4 H-1, 2, 4-triazole derivatives as inhibitors of tankyrase and Wnt-signaling antagonist: a molecular dynamics simulation study. Journal of Biomolecular Structure and Dynamics. 2023 Dec 29;41(22):13496-508. https://doi.org/10.1080/07391102.2023.2175376 (IF:4.4).
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- 23. Recent Advancements and Developments of Molecular Dynamics Simulations in the Discovery of Anti-protozoal Agents https://doi.org/10.1002/slct.202302471. (IF:2.1)
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