

Inspiring Thoughts... Radiance

Institute of Pharmacy, Nirma University



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Seven Days NSS Special Residential Camp organized at Nabhoi Village (Haripura), Viramgam Taluka, from December 17-23, 2022

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DIRECTOR'S DESK

It brings me great pleasure to announce the release of the latest edition of "Radiance". The current issue of radiance highlights the latent energy, technical, and literary skill among students and employees. This edition of Radiance also emphasizes the Institute's expert lecture series, which features e-talks by national and international experts as well as alumni, as well as short-term training for students and faculty. This publication, aptly named "Radiance-Inspiring Thoughts, provides an overview of the variety of co-curricular and extracurricular activities organized by students, for students. Thanks to the staff and students for their efforts in research and extracurricular activities. I commend the editing team for their devotion and hard work in achieving this objective, and I wish my beloved students the best of luck.

Dr. Tejal A. Mehta

Director (I/c), Institute of Pharmacy



From the Editor's Desk

It is indeed a matter of pleasure that the Institute of Pharmacy, Nirma University, is bringing out the first and second issues of the sixteenth volume of 'Radiance'. The Institute of Pharmacy always attempts to increase the horizon of learning through creating an environment for students as well as faculty by organizing various lecture series of experts from different corners of the world. This issue also gives a glimpse of several events organized by the institute. I am thankful to all the members of the editorial board for contributing positively to provide the present shape of this issue.

Your suggestions and feedback are always welcome at radiance.ip@nirmauni.ac.in

Dr. Bhagawati Saxena

Associate Editor

Dr. Shital Butani

Editor



NEW PROGRAM INITIATED: PHARM D

The Institute of Pharmacy has initiated a Doctor of Pharmacy (PharmD) programme with 30 students' intake from the academic year 2022-23. It is a six-year programme where students undergo one year of internship at hospital. The programme needs extensive training in clinical pharmacy and for the conduct of the same, the institute has collaborated with KD Hospital, Ahmedabad. These students will have ample career opportunities in clinical research industries, hospitals, research organizations and academia.

Institute of Pharmacy shining in GSIRF 2022



Institute of Pharmacy, Nirma University has secured the first rank in Gujarat State Institutional Rating Framework 2022 (GSIRF) among all Pharmacy Institutions of Gujarat with the 5-star ratings and CGPA of 4.66 out of 5. Additionally, Nirma University has been awarded the five-star status with an overall CGPA of 4.4 out of 5 by the Government of Gujarat in the top 10 Universities.

EXPERT AND ALUMNI LECTURES

Expert lectures were organized regularly for UG, PG and Ph.D. students related to their curriculum, current affairs in the pharmaceutical field as well as for the development of soft skills of the students. Alumni of the Institute, working in various fields are also invited to interact with current students on various topics. The following list provides information of the expert/alumni lectures organized from March 2022 to February 2023:

Name of the Expert, Designation and Organization	Title of the Talk	Date
Prof. Anil Jindal, Asso. Prof., Department of Pharmacy, Birla Institute of Technology and Science (BITS) Pilani, Pilani Campus, Pilani, Rajasthan	Use of Physiological based pharmacokinetic modeling (PBPK) for the pharmaceutical product development	March 03, 2022
Prof. Srinivas Mutalik, Head, Department of Pharmaceutics, Manipal College of Pharmaceutical Sciences, Manipal	New avenues in Dendrimers and Liposome based Drug Delivery Systems	March 04, 2022
Dr. Atish T. Paul, Asso. Prof., Department of Pharmacy Birla Institute of Technology and Science, Pilani,	Understanding the Role of Natural Products Chemistry in Drug Discovery Process	March 08, 2022
Mr Ujjawal Jaiswal, Chief Instructor, Rushiraj Karate Kungfu Federation, Ahmedabad,	Self-defense for Girl students	March 10, 2022
Prof. Anil M. Pethe, Dean, Datta Meghe College of Pharmacy, Datta Meghe Institute of Medical Sciences Deemed University, Wardha, Nagpur	Novel Technologies in Healthcare Research	March 10, 2022
Dr. Biswajit Mukharjee, Department of Pharmaceutics, Jadavpur University, India	Drug Targeting with Nano-formulations	March 05, 2022
Dr. Gowthamarajan Kuppusamy, Professor and Head, Department of Pharmaceutics, JSS College of Pharmacy Ooty, India	Personalized Medicines for Future Pharmaceuticals	March 05, 2022
Ms. Nafisa Barot, Founder Director of Utthan International Water, India [Winner of the 2020 IWA Women in Water Award]	Towards Integrating Gender Equality	March 08, 2022
Dr. Krunal Soni, Consultant and Orthopedic Surgeon Specialist in Arthroscopy & Sports Injury, Shalby Multi-specialty Hospital, Ahmedabad, India	Health Talk on Sports Injury Awareness	June 02, 2022
Prof. Anamik Shah, Vice-chancellor, Gujarat Vidyapith, Ahmedabad; Centre of Excellence (in Drug Discovery),	Small Research Initiatives and Experiences Creates Future Ecosystem for Innovations and Entrepreneurship: Learning from Few Case Studies	September 07, 2022
Dr. T. Pavan Kumar, Senior Scientist, CSIR-Indian Institute of Minerals and Materials Technology (IMMT), Bhubaneswar	Innovation Dynamics & Patenting Strategies for Academic and Research	September 12, 2022
Dr. Stephen Kerr, Prof., Medicinal Chemistry, School of Pharmacy, Massachusetts College of Pharmacy and Health Sciences (MCPHS), Boston, USA	Prospects of Postgraduate Studies at MCPHS	October 6, 2022

EXPERT AND ALUMNI LECTURES

Name of the Expert, Designation and Organization	Title of the Talk	Date
Dr. Madhukant Patel, Adjunct Professor, Computer Science & Engineering Department, Institute of Technology, Nirma University	Application on IoT in Healthcare	December 22, 2022
Dr. Praharsh Shah, Director of Pharmacy and Residency, Program Director at HCA Healthcare Riverside Community Hospital, USA	Scope of Pharm.D. in USA	January 04, 2023
Dr. Kanan Shah Product Development Associate, Alphamed Pvt. Ltd, Auburn, Australia	Multi herbal Preparations in Australia-Regulations and Development	January 23, 2023
ALUMNI LECTURE		
Mr. Ujjawal Kansara, Expert Medical Regulatory Writer, Sanofi Healthcare India Pvt. Ltd., Hyderabad	Advanced Formatting Checks for Error Free Deliverable	November 5, 2022
Mr. Neel Changela, Senior Executive (Research), Sun Pharmaceuticals Industries Ltd. (SPARC), Vadodara	New Advances in Bioequivalence Testing methods for complex Ophthalmics and Liposomal Generics Products"	November 5, 2022
Dr. Pritesh Desa, Zyduz Healthcare Ltd., Ahmedabad	Genotoxic Impurities - Evaluation, challenges and Regulatory Aspects	November 7 , 2022
Dr. Divyang Patel, Asst. Prof., Pioneer Pharmacy College, Vadodara	Ayurveda and Food Habits	November 11, 2022
Ms. Urmi Vora, Senior Executive (Drug Safety Associate), Wipro Ltd., Pune,	Pharmacovigilance: Industrial Perspective	November 11, 2022
Ms. Mimansa Jhaveri, Ex - Senior Research Associate - Formulation R&D, Piramal Pharma Ltd., Ahmedabad	WHO guideline for Technology Transfer - Industry Perspective	November 21, 2022
Mr. Raj Solanki, Founder and Partner, pharmACE Research Laboratory, Ahmedabad	Role of Organic Chemistry in Pharmaceutical Industries	November 21, 2022
Ms. Dhara Chhatabar, Senior Executive (Scientist-II), Torrent Research Center, Bhat, Gandhinagar	Role of Beta blockers for controlling the hypertension	November 25, 2022
Mr. Srijan Mishra, Clinical Research Associate and Feasibility Associate Ahmedabad	Feasibility in Clinical Trials	December 3, 2022
Ms. Jayakumari Sharma, Medical Services Specialist from Intas Pharmaceuticals	Management strategy for treatment of CNS disorders	December 6, 2022
Mr. Rushabh Shah, M.Tech. in Pharmaceutical Technology (Process Chemistry) from National Institute of Pharmaceutical Education and Research (NIPER), S.A.S. Nagar, Punjab	How to Crack Gpat & NIPER	January 6, 2023

International Seminar on Career Prospects in Pharmacy & Workshop on Pharmaceutical Equipment and Software

Institute of Pharmacy, Nirma University organized an "International Seminar on Career Prospects in Pharmacy & Workshop on Pharmaceutical Equipment and Software" during June 23-24, 2022 for B. Pharm. students of various institutions of India. The programme was inaugurated on June 24, 2022 wherein about 100 students from different pharmacy institutions of the country participated enthusiastically. They were made aware about the scope of pharmacy graduates in pharmaceutical industries and the queries by the young minds were answered by the faculty panel.



Faculty Development Programme 2022

Institute of Pharmacy and Institute of Science, Nirma University organized Faculty Development Programme on "Current Advances in AI, Systems Biology and 3D Bioprinting in Biomedical Research" during June 27-July 08, 2022 under the auspices of IQAC, Nirma University. Prof. Amit Prashant, Officiating Director, Indian Institute of Technology (IIT), Gandhinagar was invited as Chief Guest of Inaugural function. Prof. Manjunath Ghate, Director, Institute of Pharmacy and Prof. Sarat Dalai, Director, Institute of Science delivered the welcome addresses.



Orientation Programme for M.Pharm., Pharm.D., B.Pharm.

Institute of Pharmacy, Nirma University organized an orientation programme in hybrid mode for M.Pharm. new entrant students during August 22-26, 2022. Dr. Taruna Madan, Head, Department of Innate Immunity, National Institute for Research in Reproductive Health (NIRRH), Mumbai was the chief guest of the inaugural function. Dr. Anup Singh, Director General, Nirma University presided over the function.



EVENTS

Institute of Pharmacy, Nirma University organized an orientation programme for new entrant students and first batch of Pharm.D. programme during November 18-19, 2022. Dr. Parth Desai, Chief Operating Officer, KD Hospital, Ahmedabad was the Chief Guest of the Inaugural Function, who motivated the students by his inspiring inaugural address. Shri K. K. Patel, Vice President, Nirma University and Dr. Anup Singh, Director General, Nirma University presided over the Inaugural function and influenced all by their words of wisdom.



The Institute of Pharmacy, Nirma University organized an orientation programme for new entrants of B.Pharm. programme during December 22-28, 2022. The orientation programme was inaugurated on December 22, 2022 and Dr. Ganeshchandra Sonavane, Vice President (R&D), FTF Pharma Pvt. Ltd., Ahmedabad was the chief guest of the inauguration function.



National Seminar on "Alternative Systems of Medicine for Healthcare Management"



Department of Pharmacognosy, Institute of Pharmacy, Nirma University in association with Center for Continuing Education (CCE), Nirma University, organized a National Seminar on "Alternative Systems of Medicine for Healthcare Management" on September 28, 2022. Dr. Shivang Swaminarayan, Homeopathy Practitioner and Honorary Homeopathy Physician to the Governor of Gujarat delivered a talk on 'Homeopathy in Endemic and Pandemic'. Dr. Rupa Majmudar, Reiki expert & practitioner, Ahmedabad gave a lecture on "Reiki: a natural healing method" and demonstrated how Reiki can be practiced on oneself and others. Dr. Pankaj Tewani, Asst. Prof., Dr. Sanghvi's Academics & Chairman and Founder, Sanjivani Clinic, Surat enlightened about "Acupuncture Analgesia" and demonstrated the technique of acupuncture for knee pain.

Foundation Day Celebrations 2022

The 20th Foundation Day of the Institute of Pharmacy, Nirma University was celebrated with full zeal and enthusiasm by the faculty, staff members and students on October 1, 2022. Shri Amit Bakshi, Chairman & Managing Director, Eris Life Sciences, Ahmedabad was the Chief and Dr. Anup Singh, Director General, Nirma University was the President of the inaugural function. Prof. Tejal Mehta, I/c Director, Institute of Pharmacy presented the annual report of the Institute highlighting the major accomplishments of the Institute. The meritorious students of B.Pharm. and M.Pharm. were given gold medals and the students, faculty, staff and alumni were felicitated for their outstanding achievements. Various competitions were also organized like elocution, extempore, debate, photography, T-shirt painting and rangoli competitions.



ROSTRUM 2022

Institute of Pharmacy, Nirma University celebrated its annual cultural programme, ROSTRUM 2022 on November 16-17, 2022. Shri Salil Mehta, Actor, Producer & Director was the Chief Guest of the valedictory function and Shri Ashish Desai, Honorary HoD, Students Welfare Board, Nirma University presided over the function. The winners of various events were given away the prizes during the Valedictory function.



Industry meet on the “OTHER SIDE OF THE TABLE”

The Office of Corporate Relations, of Institute of Pharmacy, Nirma University hosted an on campus Industry meet "on the OTHER SIDE OF THE TABLE" on November 19, 2022. As themed, the event allowed participants to listen and learn from the personal and professional experiences of industry leaders. This intimate discussion unlocked powerful insights about the real world of work, why to and how to network and how to best navigate the professional world as a fresh graduate. The event was meant for soon to be graduating M.Pharm. and B.Pharm. students and was filled with insights by the resource persons from the organizations of repute like Zydus Life, Baxter India, Shalby Hospital and Hester Biosciences.



IPNUAA meet

The Annual Alumni meet of IPNUAA (Alumni Association) was organized on December 31, 2022. Total 70 Alumni attended the event, and it was a matter of great pride that there were alumni representatives from almost all batches. Prof. Tejal Mehta (I/c Director, IPNU and President, IPNUAA) delivered the annual report of the Institute, and Dr. Dhaivat Parikh (Vice President, IPNUAA) enlightened all about various activities conducted by Alumni Association. Alumni were requested for alumni support in various activities at Institute of Pharmacy including placement and training activities. All alumni members were requested to share their experiences and views. Lastly, Dr. Nrupesh Patel (Secretary, IPNUAA) delivered a vote of thanks. Overall, the IPNUAA meeting was a fruitful experience, with many alumni joining and enjoying the event.



2nd Nirma e-Conference for International Connect (NCIC)-2023

Institute of Pharmacy, Nirma University organized its flagship event, 2nd Nirma e-Conference for International Connect (NCIC)-2023 on "Recent Advances in Nanotechnology: Drug Discovery & Therapeutics" during January 24-25, 2023. Prof. Yashwant V. Pathak, Prof. and Asso. Dean for Faculty Affairs, USF Health Taneja College of Pharmacy, University of South Florida, USA was the Chief Guest of the Inaugural function. Prof. Om Prakash Katare, Prof., University Institute of Pharmaceutical Sciences (UIPS), Panjab University, Chandigarh was the Guest of Honor of the Inaugural programme. Dr. Anup K. Singh, Director General, Nirma University presided over the function. The talks on aspects of nanotechnology, its applications were discussed by the renowned experts from industry, and academia across the globe. During the valedictory decision, Prof. Shailendra Saraf, Director, NIPER-Ahmedabad, remained present and motivated the students to come up with new ideations for the betterment of healthcare of society.



Self defense workshop

A "Self-Defense Workshop" for girl students of B.Pharm. Sem I, Pharm.D. First Year, M.Pharm. Sem II and Ph.D. scholars (new entrants, 2022 batch) was organized on February 09, 2023 as a part of Women Development Cell (WDC) activity. Mr. Rushiraj Jaiswal from Rushiraj Karate Kungfu Federation, Ahmedabad conducted the workshop. The girl students participated enthusiastically in the workshop and learnt many lifelong self defense skills.



One Day Symposium on Neuroscience

Department of Pharmacology, Institute of Pharmacy, Nirma University in association with Centre for Continuing Education (CCE) organized "One Day Symposium on Neuroscience" on Friday, February 17, 2023. Dr. Ganesh Sangle, Director & Head – NCE Discovery Research, Kashiv BioSciences LLC, Ahmedabad, Dr. Vinod Tiwari, Asso. Prof., Indian Institute of Technology, (Banaras Hindu University), Varanasi, were the resource persons. The symposium included plenary lectures by experts on recent advances in neuroscience and various animal models of neurological disorders, hands on stereotaxic-apparatus and ANYMAZE software. Around 40 participants across Gujarat have attended the symposium actively.



Hands-on training on "Basic Life Support" skills

Institute of Pharmacy, Nirma University in association with Indian Academy of Paediatrics organized a workshop on February 22, 2023. Dr. Harinder Singh (Ludhiana), Dr. Mahesh Patel (Surat) and Dr. Abhay Jain (Aurangabad), the convener of Indian Academy of Paediatrics-Advanced Life Support (BLS Group) were the resource persons. The workshop was organized for the students of B.Pharm. Sem IV, M.Pharm., Ph.D. scholars and faculty members. The workshop included hands-on training on "Basic Life Support" skills. The students participated enthusiastically and learnt basic life support skills like cardiopulmonary resuscitation (CPR), defibrillation, and overcoming foreign body airway obstruction (FBAO).



National Workshop on Computer Aided Drug Design Software

Department of Pharmaceutical Chemistry, Institute of Pharmacy, Nirma University in association with Centre for Continuing Education (CCE) organized "National Workshop on Computer Aided Drug Design Software" on February 23, 2023. The workshop included plenary lectures by experts on recent advances in computer aided drug design & hands on over various drug design software. Around 42 participants across Gujarat attended the workshop actively.



No.	Title of Students Research	Student Name	Guide Name
Ph.D. in Pharmaceutical Sciences			
1	Pharmacological Evaluation of Novel Tyrosine Kinase Inhibitors for Treatment of Diabetes Mellitus	Srashti Verma	Dr. Snehal Patel
2	Design and Development of an Ocular In-Situ Gel Integrating Antifungal Drug Loaded Mesoporous Silica Nanoparticles for Treatment of Fusarium Keratitis	Patel Lajja Dilipkumar	Dr. Tejal Mehta
3	Evaluation of Anti-osteoporotic Activity of Herbal Extract in Experimental Model	Bohra Bhavna Vinod Ramila	Dr. Bhagawati Saxena
4	Design and in-vivo Characterization of In-Situ Gel Containing Nanoparticles for the Treatment of Amyotrophic Lateral Sclerosis	Padhiyar Dhvani Pankajkumar	Dr. Shital Butani
5	Evaluation of Effect of Polyphenols In Leaky Gut and Gut-Brain Axis	Amanpreet Kaur Kalra	Dr. Shital Panchal
6	Design and Synthesis of Novel Heterocyclic Analogues as Telomerase Inhibitors for the Treatment of Cancer	Rajdeep Dey	Dr. Hardik G. Bhatt
7	Design, Synthesis and Biological Evaluation of Novel PARP1 Inhibitors as Anticancer Agents	Nidhi Saini	Dr. Bhumika D. Patel
8	Design, Development and Optimization of Topical Nano Herbal Formulation for Treatment of Eczema	Shah Rushil Dimpalkumar	Dr. Nagja Tripathi
9	Development of Alternative Therapy for the treatment of Neurodegenerative Diseases	Aabir Pramanik	Dr. Niyati Acharya
10	Design, Synthesis and Biological Evaluation of Novel Heterocyclic Molecules as Anti-tuberculosis Agents	Ekta Punit Thakor	Dr. Bhumika D. Patel
11	Microneedles: A Smart Drug Delivery Approach for The Management of Psoriasis	DSA Melroy Mervyn Alka	Dr. Nrupesh Patel
12	Formulation and Evaluation of Long Acting Injectable Dosage Form for Anti-cancer Drug by Implementing the Principles of QbD	Shraddha Shashank Sawant	Dr. Shital Panchal
M. Pharm In Pharmaceutics			
1	Formulation and Development of Delayed Release Multiunit Dosage System for Treatment of Multiple Sclerosis	Bhavya Shah	Dr. Mohit Shaha
2	Development and Optimization of the Delayed Release Pellets to Minimize the Nitrosamine and related Impurities	Deepak Patil	Dr. Jigar Shah
3	Development and Characterization of Imiquimod Loaded Microemulsion Based Gel for Management of Cutaneous Leishmaniasis	Devashish Jaiswal	Dr. Mayur Patel

STUDENTS' RESEARCH

No.	Title of Students Research	Student Name	Guide Name
4	Development of Delayed Release Tablets of Antifungal Agent	Dhwani Sheth	Dr. Tejal Mehta
5	Development and Characterization of an Enteric Coated Extended-Release Formulation of Beta- Blocker	Drashti Thakkar	Dr. Shital Butani
6	Formulation Development and Evaluation of Oral Liquid Suspension of Antihypertensive Drug	Parmar Gayatri	Dr. Jigar Shah
7	Development, Optimization And Characterization of Nasal Microspheres For The Delivery of Calcium Channel Blockers	Harshit Barot	Dr. Mohit Shah
8	Development And Characterization of Quercetin Loaded Microemulsion Based Gel For Management Of Atopic Dermatitis	Hemali Dadhania	Dr. Tejal Mehta
9	Optimizing The Formulation And Evaluation of Inhaled Corticosteroidal Suspension for the Treatment of Asthma & COPD	Jahanvee A Kumar	Dr. Shital Butani
10	Optimizing the Formulation and Evaluation of Inhaled Corticosteroidal Suspension for the Treatment of Asthma & COPD	Khushboo Merai	Dr. Dhaivat Parikh
11	Fabrication, Optimization And Evaluation of An Extended-Release Dosage Form as a Promising Approach for Once a Day Treatment in Epilepsy	Parin Prajapati	Dr. Shital Butani
12	Development and Characterization of Nano-Sponge Based Hydrogel of Combination Drugs for the Treatment of Candidiasis	Riddhi Jadiya	Dr. Tejal Mehta
13	Formulation, optimization and Characterization of the Extended-Release Tablet for the Antipsychotic Disorder	Ritwik Maiti	Dr. Mayur Patel
14	Formulation and Evaluation of Osmotic Tablets for the Treatment of Rheumatoid Arthritis	Tejas Akolkar	Dr. Mayur Patel
15	Design and Development of Formulations for Enhancement Solubility of Bcs Class II Drug by using Micronization Techniques	Vinayak Ray	Dr. Dhaivat Parikh
16	Development, Formulation and Characterization of Orodispersible Tablets of Budesonide for the Treatment of Eosinophilic Esophagitis	Muskan Joshi	Prof. Tejal A. Mehta
M. Pharm in Pharmacology			
1	Evaluation of Anti-Inflammatory Agent for its Effect in Cognitive Impairment	Astha Mishra	Dr. Shital Panchal
2	Combination of Epigenetic Regulators With Chemotherapeutic Agents: A Novel Approach for Treatment of Hepatocellular Carcinoma	Ayush Sharma	Dr. Snehal S. Patel
3	Evaluation of Adipocytokine Agonists for Reversing Metabolic Dysfunction	Baidehi Mitra	Dr. Snehal S. Patel

STUDENTS' RESEARCH

No.	Title of Students Research	Student Name	Guide Name
4	Evaluation of Polyherbal Formulation in the Management of Acute Lung Injury	Fagun Pathak	Dr. Bhagawati Saxena
5	Development of Parkinson's Disease Model and Exploring Role of C-Phycocyanin in Parkinson's Disease	Hritik Rathod	Dr. Jigna Shah
6	Pharmacological Evaluation of Herbal Drug in Experimentally Induced Breast Cancer In Rats	Jay Soni	Dr. Jigna Shah
7	Evaluation of Neuroprotective Effect of Nardostachys Jatamansi in Experimental Model of Traumatic Brain Injury	Misha Aanand	Dr. Bhagwati Saxena
8	Investigation of Neuroprotective Effect of Nardostachys Jatamansi in Experimental Model of Alzheimer's Disease	Nidhi Nidhi	Dr. Bhagwati Saxena
9	Evaluation of Neuroprotective Effect of Barnidipine Against Streptozotocin Induced Alzheimer's Disease Model in Rats	Pankaj Desmukh	Dr. Shital Panchal
10	Effect of Anti-Inflammatory Agent in Cancer Induced Cachexia	Srusti Dave	Dr. Jigna Shah
11	Preclinical Evaluation of Selected Drug for Treatment of Alzheimer's Disease	Zalak Panchal	Dr. Jigna Shah
12	Role of LXR Agonist in Cardiac Associated Cachexia	Amisha Mahur	Dr. Jigna Shah
Pharmaceutical Analysis			
1	Forced Degradation Study and Impurity Profiling of SUN API by UPLC-HRMS	Dhanvi Parmar	Dr. Nrupesh Patel
2	Force Degradation of SUN Peptide For Identification And Characterization of Generated Impurities by HPLC and HRMS	Dhruv Joshi	Dr. Charmy Kothari
3	Development and Validation of Dissolution Method for Dolutegravir, Lamivudine and Tenofovir Disoproxil Fumarate Tablets in Combined Dosage Form by RP-HPLC	Heer Hariyani	Dr. Priti Mehta
4	HPLC Method Development and Validation for Quantitative Estimation of Tramadol Hydrochloride and Related Substances in Injection Formulation	Het Shah	Dr. Bhumika D. Patel
5	Development and Validation of HPTLC method for Simultaneous Estimation of Bioactives from Ayurvedic Formulation: Brahma Rasayana	Hetanshi Patel	Dr. Dipal Gandhi
6	In-Vitro Drug Release Study Of S(-) Metoprolol Succinate Tablet by RP-HPLC	Jeel Kalariya	Dr. Priti Mehta
7	Analytical Method Development and Validation of Swietenia macrophylla markers	Jeel Modi	Dr. Niyati Acharya
8	Green Analytical Method Development and Validation of Rasagiline mesylate by HPTLC	Kanchan Mahadev Lohana	Dr. Hardik Bhatt

STUDENTS' RESEARCH

No.	Title of Students Research	Student Name	Guide Name
9	Development and Validation of Stability Indicating Method of Budesonide by HPLC	Priyanshi Mehta	Dr. Priti Mehta
10	Green Analytical Method Development and Validation of Deflazcort by NP-HPTLC AND RP-HPTLC	Rutu Devendra Barot	Dr. Hardik Bhatt
11	Development and Validation of Stability Indicating MS Compatible HPLC Method for Deferasirox	Shreya Patel	Dr. Charmy Kothari
12	Method Development and Validation of In-Vitro Drug Release Profile of Bilastine By RP-HPLC METHOD	Shruti Patel	Dr. Jignasa Savjani
13	Analytical Method Development and Validation of Stevia Rebaudiana Markers by HPLC	Sneh Patel	Dr. Niyati Acharya
14	Stability Indicating HPTLC Method for Mirtazapine	Zeel Jadav	Dr. Nrupesh Patel
15	Phytochemical Characterization and Anti-urolithiatic Activity of Marketed Herbal Formulations	Shreya Lunagariya	Dr. Nagja Tripathi
M. Pharm in Regulatory Affairs			
1	Regulatory Requirements and Comparative Study for Registration of Oral Rehydration Salt Product In ASIAN, AFRICAN and CIS Region	Daksh Mendapara	Dr. Charmy Kothari
2	Global Regulator Approaches Towards Nitrosamine Impurities in Human Drugs	Dwija Bharbhaya	Dr. Snehal Patel
3	Regulatory Procedure of Post Approval Changes and Variation and Comparative Studies of European Union and United States	Tailor Jahnavi	Dr. Hardik Bhatt
4	Filing of 'X' Injection: Module 3 ANDA Submission	Karma Parikh	Dr. Charmy Kothari
5	Regulatory Understanding of CTD & Ectd Format and Preparation of Ectd Submission for South Africa using Different Ectd Software	Manan Shah	Dr. Vivek Vyas
6	Regulatory Framework and Comparative Study of Post Approval Changes (Variation Filing) for Parenteral Drug Products in ASEAN and GCC Regions	Priyanka Amin	Dr. Nrupesh Patel
7	Regulatory Framework for Approval of COVID-19 Vaccines in India, USA and Europe	Rajvi Thakkar	Dr. Priti Mehta
8	ANDA Dossier Filing in US Market for Reconstituted Oral Suspension	Shely Modi	Dr. Priti Mehta
9	Key Challenges and Impact Analysis of ICH Q12 in USA and Mexico	Shivani Shah	Dr. Niyati Acharya
10	Entitled "Regulatory Requirements For Biosimilars in WHO Western Pacific Region	Surbhi Kanani	Dr. Niyati Acharya
11	Post Market Clinical Follow-Up Study Among the Selected Devices in Europe, Australia, US	Tithi Raval	Dr. Hardik Bhatt
12	Stability Studies of API and Regulatory Requirements for Registration of API in Tanzania, South Korea and India	Vini Doshi	Dr. Mohit Shah

Following students received Ph.D. degree during the thirty first Convocation of Nirma University held on December 10, 2022.

No.	Name of Student	Project Title	Name of Guide
1	Gajjar Krishna Ashok Kumar	Identification, Optimization and Biological Evaluation of Drug like Heterocyclic Templates for the Treatment of Type II Diabetes Mellitus	Dr. Anuradha K. Gajjar
2	Prajapati Krunal Jayantibhai	Impurity Profile of Selected Antiasthmatic drugs	Dr. Charmy Kothari
3	Shah Manan Pareshbhai	A Data Mining Approach to Comprehensive Signal Detection of Later Generation Contraceptive Drugs	Dr. Charmy Kothari
4	Patel Vimal Dineshbhai	Anti-cancer and Neuroprotective Effects of Conjugated Graphene Quantum Dots (GQDs) in Brain Tumor Bearing Animal Model	Dr. Jigar N. Shah
5	Bora Vivek Ramesh	Systematic Study of Selected Anti-diabetic Agents in Cancer Cachexia	Dr. Bhoomika M. Patel
6	Keerti Vishwakarma	Design and Synthesis of Acridine Derivatives as Telomerase Inhibitors for the Treatment of Lung Cancer	Dr. Hardik G. Bhatt

Students' events:

World Pharmacists Day Celebration 2022- Essay Writing Competition

As a part of "World Pharmacists Day 2022" Institute of Pharmacy, Nirma University in association with Association of Pharmaceutical Teachers of India (APTI), Gujarat State Branch celebrated pharmacist week from September 26 to October 01, 2022. Various events namely, Essay writing competition, Fit India activity, Rangoli making, Elocution and presentations on Pharmacy and Health Awareness were carried out. The presentations on Pharmacy and Health Awareness were made and presented by the students of Institute of Pharmacy, Nirma University at different Institutes of Nirma University to create awareness for good health. The winner of an essay writing competition on a theme "Pharmacy United in Action for a Healthier World", Ms. Dwija Shrimali (21BPH030) was awarded with the 1st prize.

Teacher's Day 2022

Teacher's day was celebrated on September 5, 2022. Students have actively participated by conducting academic sessions of B.Pharm. in morning sessions and had wonderful experiences. In the second half, the B.Pharm. Semester VII students conducted the whole programme for faculties. They also felicitated the faculties and organized some interesting games for faculties like Guess the faculty, Damsharas, Sa Re Ga Ma IPNU Faculty, Debate etc.



STUDENTS' CORNER

Under-graduate Research Council

Mr. Rushabh Shah (18BPH080), who glorified IPNU by scoring AIR 5 in GPAT-2022 and cracking NIPER JEE-2022 with AIR 2, have been currently pursuing M. Tech. in Pharmaceutical Technology (Process Chemistry) from the prestigious National Institute of Pharmaceutical Education and Research (NIPER), S.A.S. Nagar. He has delivered a talk on "How to crack GPAT & NIPER" to B.Pharm. Sem VI and Sem VIII students on January 06, 2023.

Mr. Yash Gadani (06BPH115), Founder of ApoMind, a GPAT/NIPER coaching academy delivered an alumni talk on "Scope of the Pharmaceutical Industry" and conducted a mega quiz for the students appearing for GPAT on January 30, 2023.



Mr. Harshit Barot (17BPH025 and 21MPH107) delivered an alumni talk on "Preparation for the GPAT examination" to B. Pharm. Sem VI and Sem VIII students on January 21, 2023.



Extension Activities

Seven Days NSS Special Residential Camp organized at Nabhoi Village (Haripura), Viramgam Taluka

Institute of Pharmacy, Nirma University, had organized a 7-day residential camp under the aegis of NSS activity at Nabhoi Village (Haripura), Viramgam Taluka, from December 17–23, 2022. The camp members connected with the locals, met the village officials, learned about the frequent problems they faced, and identified locations where awareness posters should be displayed. The campers also organized a march to raise awareness of traffic laws, highway safety, and gender equality. Along with cleaning the roads, ponds, ditches, temple grounds, etc., the camp members also engaged in a rigorous cleanliness drive and instructed the villagers on how to properly dispose of garbage. NSS volunteers walked 5-7 kilometers to a farm as part of the "Fit India" programme, which was organized during this camp. They learned about agricultural practices that are used in the rural area while on the stroll. For the students of Nabhoi Secondary School, numerous sporting events were organized during this residential camp. These included games like the sack race, book balancing, frog race, and skipping race. A drawing contest for the kids of the schools was also organized. Dr. Tejal Mehta, Director I/c, Institute of Pharmacy and Dr. Udit Chaube, NSS Program Officer, Institute of Pharmacy presented prizes and offered their congratulations to the competition's winners. Various sports kits were donated to the Nabhoi Secondary School on behalf of the Institute of Pharmacy, Nirma University.

Panch Prakalp

NSS UNIT of Institute of Pharmacy, Nirma University organized an extension activity in the primary schools of Tragad village under the banner of "Panch Prakalp (Initiative of Government of Gujarat)" as a part of "Azadi ka Amrit Mahotsav" on August 06, 2022. Total 37 NSS volunteers were involved. The two themes related to the Panch Prakalp taken for the extension activity were (a) Briefing to the students regarding the corona vaccination and its benefits and (b) Briefing to the students regarding the importance of Cleanliness. In lieu of this, a drawing competition was organized for the students of the 7th and 8th standard and prizes were given to the winners in the form of a sanitizer kit.

Cloth Donation Drive

The NSS unit, Institute of Pharmacy, Nirma University carried out a Cloth Donation Drive from August 24-30, 2022, on campus of Institute of Pharmacy, Nirma University. The students, faculties and non-teaching staff participated enthusiastically in the noble cause. The clothes were donated to Blind People's Association, Vastrapur, Ahmedabad on September 3, 2022.



Blood Donation Camp

Students Welfare Board, Nirma University in association with NSS Unit - Institute of Pharmacy, SPANDAN Club - Institute of Management, and the Kalupur Commercial Co-operative Bank Ltd., Nirma University Branch along with the Indian Red Cross Society organized a Blood Donation Camp on September 02, 2022 at K canteen, Nirma University campus. Students, faculty and staff members of Nirma University enthusiastically joined in this noble cause by donating 229 units of blood.



Fit India and Anti-Tobacco drive

NSS Unit, Institute of Pharmacy, Nirma University organized an extension activity in the primary schools of Tragad village under the banner of "Panch Prakalp (initiative of Government of Gujarat)" as a part of "Azadi ka Amrit Mahotsav" on September 27, 2022. Total 18 NSS volunteers were involved. The two themes related to the Panch Prakalp taken for the extension activity were Fit India and anti-tobacco drive.



STUDENTS' CORNER

Best Scholastic Performance

Institute of Pharmacy, Nirma University felicitated the students with gold medals for their scholastic performance during the respective years on the occasion of Foundation Day October 1, 2022.

Programme and Year	Name of the student
B.Pharm. Second year	Tulsian Kartik Arunkumar
B.Pharm. Third year	Sahal Vaibhav Pradeepkumar
M.Pharm. First year	Barot Harshit Pramod

Other felicitations on Foundation Day for Outstanding Achievements were as below:

Award	Awardee Name	Award Text
Best Researcher	Abu Sufiyan Chhipa	as the Best Research Scholar of the Year
National Service scheme (NSS)	Harmish Iteshbhai Lakum	as the Best NSS Volunteer of the Year
Sportsperson	Devarsh Sutaria	as the Best Sportsperson of the Year
Best Student	Sahal Vaibhav Pradeepkumar	as the Best Student of the Year

Alumni Felicitation for their outstanding achievement

Roll No.	Name of Alumni	Current Professional Status	Location
09BPH020	Meenal Chaudhari	Sr. QA Associate, Bayer	Mississauga, Ontario, Canada
09BPH054	Nihar Kinarivala	Associate Director, Bristol Myers Squibb	Princeton, New Jersey, USA
09BPH074	Snehal Shukla	Senior Scientist, Formulation Process Development- Pfizer Inc.	Groton, CT, USA
09BPH098	Laxmi Iyer	Postdoctoral Scientist - Henry M Jackson Foundation for the Advancement of Military Medicine, Department of Defense	Chevy Chase, Maryland, USA
09MPH102	Harsh Shah	Senior Research Scientist III, J-Star Research Inc.	Cranbury, New Jersey, USA
09MPH110	Tushar Bambharoliya	Extrusion Development Engineer- Becton, Dickinson and Company (BD)	Lexington, MA, USA
09MPH111	Om Prakash Sharma	Formulation Specialist, FTO-11, DRL	Pydibhimavaram, Visakhapatnam, India
09MPH303	Gargi Lakhwani	Manager, US Drug Regulatory Affairs	Monroe, New Jersey, USA
09MPH305	Manish Kumar Sharma	Post Doctoral Research Associate- University of Nebraska Medical Center	Omaha Nebraska USA
09MPH504	Mrudul Kansara	Deputy General Manager, HR-Corporate Training, Troikaa Pharmaceuticals Ltd.	Ahmedabad, Gujarat, India

Student Achievement

Two Ph.D. Scholars, **Mr. Manmohan Sharma** and **Mr. Abu Chippa** from Institute of Pharmacy, Nirma University completed two-months training at University of Turin, Torino TO, Italy under Erasmus+ Partner Countries - KA107 International mobility program. Dr. Giovanni Andriolo, UNIVERSITÀ DEGLI STUDI DI TORINO, UNITA and International mobility office visited Institute of Pharmacy, Nirma University, Ahmedabad Under the same Erasmus+ program.

Following students of IPNU received the best oral presentation award at 2nd Nirma e-Conference for International Connect (NCIC-2023) on the theme of "Recent Advances in Nanotechnology: Drug Discovery & Therapeutics" organized by Institute of Pharmacy, Nirma University during January 24-25, 2023: (i) **Jahanvee Kumar**, M.Pharm. (Pharmaceutics) on "Optimizing the formulation and evaluation of inhaled corticosteroid suspension for the treatment of Asthma & COPD," (ii) **Mitali Paryani**, Ph.D. scholar, a consolation prize on "Study of Lercanidipine Self-emulsions in Biorelevant Media," (iii) **Dhanvi Parmar**, M.Pharm. (Pharmaceutical Analysis) on "UPLC - HRMS for Identifying Impurities in Sun API Generated by Forced Degradation Study," (iv) **Harshit Barot**, M.Pharm. (Pharmaceutics) on "Multifunctional Mesoporous Silica Nanoparticles for Drug and Gene Delivery," and (v) **Faldu Khushboo**, M. Pharm. (Pharmacology) on "Evaluation of the Potential of Avanafil in Modulating Tau Pathology and Astrocyte Expression in Streptozotocin-Induced Alzheimer's Disease Model in Rats"

Drama club students of Institute of Pharmacy won 6 prizes in the Inter Institute One Act Play Competition held on February 10, 2023 (Friday). Several teams participated in the competition title was-"Chellu Zaad" on the theme VASUDHAIVYA KUTUMBAKAM. Students won Best One Act Play- 1st prize

(**Meet Panchal, Dhruvee Patel, Haard Mehta, Yashvi Rachh, Parth Ramani, Kartey Shah, Vyom Sheth, Vansh Bafna, Khushi Mehta, Priyanshi Shah**), Best Production (**Vyom Sheth, Vansh Bafna, Khushi Mehta, Priyanshi Shah**), Best Director - Haard Mehta, Best Actor - Haard Mehta, Best Actress - Yashvi Rachh, Best Script - Dhruvee Patel.



Ms. Kunjika Suthar (21BPH051) B. Pharm Second year student participated and secured 2nd rank in the "Treasure hunt at Nirman 22" organized by ores ITNU, Nirma University on November 11-12, 2022.



FACULTY CORNER

Faculty achievement

Prof. Tejal A. Mehta has been awarded with the "Prof. M. L. Shroff Pharma Recognition Award" award for the contribution made towards the teaching profession and quality to enhancement of pharmacy education on the occasion of Teachers' day on September 05, 2022 organized by Team Pharma Lok.

Dr. Niyati Acharya received the best oral presentation award at 9th International Congress of Society for Ethnopharmacology, India, SFEC 2022, held from April 22-24, 2022. JSS College of Pharmacy, Mysuru, Karnataka.

Institute of Pharmacy, Nirma University proudly shares listing of their Faculty, **Dr. Mayur Patel, Dr. Bhoomika M. Patel** and **Dr. Snehal Patel** as world's top 2% scientists published by Stanford University.

Expert lecture delivered by Faculties

Dr. Jigna Shah delivered a guest lecture entitled "Drug Discovery and Development in Neurodegenerative diseases: Challenges and Opportunities" on 3/3/2022 in AICTE sponsored short term course on "Exploring New Horizons in Pharmacology Drug Discovery and Development" from February 28-March 05, 2022.

Dr. Niyati Acharya delivered expert talk on (i) "Recent trends in Extraction and Isolation techniques in an online Faculty Development Programme On " Emerging trends and regulations in Product of Herbal Origin " on March 21, 2022 at Graduate School of Pharmacy, Gujarat Technological University; (ii) "Regulatory affairs for Food and Nutraceuticals" in the certificate course on Pharma Regulatory Affairs, organized by K. B. Institute of Pharmaceutical Education & Research (KBIPER), Gandhinagar on September 19, 2022. Shee was also invited as a chairperson in the plenary session on "Ethnopharmacology and Well-being" at 9th International Congress of Society for Ethnopharmacology, India, SFEC 2022, on April 23, 2022, JSS College of Pharmacy, Mysuru, Karnataka

Dr. Shital Butani delivered an invited talk as speaker on (i) "Self Emulsifying Formulations: Optimizing the Oral Delivery of Lipophilic Drugs" in Faculty development program "Formulation Development Aspects of Nanotechnology Based Drug Delivery Systems" organized in association with Institute of Chemical Technology, Mumbai on August 22, 2022 and (ii)

"Liposomes based Donepezil nasal in situ gel: Formulation development and in vivo characterization" in 6th International conference on Nanoscience and Nanomedicine 2022 on September 21, 2022 in London, UK.

Dr. Charmy Kothari delivered a talk on "eCTD for pharmaceutical dossier submission" at K. B. Institute of Pharmaceutical Education and Research, Gandhinagar in the "Certificate Course on Pharma Regulatory Affairs" on September 17, 2022, organized during September and October 2022.

Dr. Priti Mehta was invited to deliver a talk on (i) "Recent Advances in Analytical Characterization of Biotherapeutics to Evaluate its Biosimilar Potential" in GUJCOST sponsored e-Faculty Development Programme on "Emerging Technologies augmenting Pharmaceutical Horizon" organized by L. J. Institute of Pharmacy, Ahmedabad on October 13, 2022; (ii) 'Regulatory and scientific requirement to get approval of biosimilar products in India' in 7th National Conference on Pharma & Allied Industry - PHARMA CONFEX 2022 at Ahmedabad on August 26, 2022 and (iii) "Understanding about drug-ionizing radiation interaction and its applicability to predict space medicine stability during space mission" in the 44th scientific assembly of COSPAR 2022 held on July 16-24, 2022.

Dr. Hardik G. Bhatt delivered a lecture on "Exploration of THQ Derivatives as Potent mTOR Inhibitors for Lung Cancer" at ISCBC-2022 organized by BIT, Mesra, Ranchi, India from November 16-19, 2022.

Projects received:

Major

Dr. Jignasa Savjani as principal Investigator and Dr. Shital Butani as Co-PI in collaboration received Major Research Project Entitled "Feasibility Study of Waste Water Treatment using Non-Thermal Plasma" worth Rs. 33.29 lakhs from Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy, Government of India for the duration of three years (2022-2025).

Dr. Charmy Kothari received a Major Research project entitled "Development of Point of Care Device for diagnosis of Vitamins and Minerals" worth Rs 41,41,198/- from Department of Science and Technology, Government of India, New Delhi in

collaboration with National Forensic Science University, Gandhinagar. Dr. Shital Panchal is Co-Investigator in this project (2022-2024).

Dr. Jigna Shah (Principal Investigator) and Dr. Tejal Mehta (Co-investigator) received the major research Project titled "Fabrication of Valacyclovir Nanotherapeutics for Brain Targeting through Nose to Brain Delivery: An effective approach for the treatment of Alzheimer's disease" from Gujarat State Biotechnology Mission, RSS scheme worth Rs. 47,53,856/- for three years (2022-2025).

Dr. Jigna Shah as Co-investigator and Dr. Reena Rajput as principal investigator received GSBTM-Research Support Scheme funded major research project titled "Evaluation of chemi-vaccine candidate and novel ionic liquid based adjuvancy for improved efficacy against breast cancer" worth Rs. 63,35,856/- for three years (2022 to 2025).

Minor

Dr. Bhoomika M. Patel received a minor research project entitled "Evaluation of Role of Anti-Inflammatory Agent in Cancer Associated Cachexia" worth Rs. 1,00,000/- for the duration of one year (2022-2023) from Nirma University.

Dr. Niyati Acharya received a minor research project entitled "Biomarker Based Analytical Profiling and Grading of Selected Medicinal Plants" of Rs. 2,00,000/- for the duration of two years from 2022-2024.

Dr. Jigar Shah received a minor research project titled "Enhancement of Bioavailability of BCS Class IV Drug by Designing Microneedles Containing Transdermal Patch for The Treatment of Psoriatic Arthritis" worth Rs. 2,00,000/- for the duration of two years during 2022-24.

Consultancy

Dr. Snehal S. Patel received a consultancy project titled "Acute Toxicity Study of Herbomineral Formulations" worth Rs 70,300/- from Unjha Ayurvedic Pharmacy, Ahmedabad. She also received a consultancy project titled "Acute Toxicity Study of Herbomineral Formulations" worth Rs. 84,940/- from Unjha Ayurvedic Pharmacy, Ahmedabad and a consultancy project titled 'Permission for "Acute and Sub-acute oral toxicity study of probiotic (Bacillus coagulans) ' worth Rs 2,06,500/- from Pellucid life sciences Pvt Ltd, Gandhinagar.

Dr. Bhoomika M. Patel received a consultancy project titled "Enzyme Inhibition Studies for Amylase and A-Glucosidase" worth Rs. 66,080/- Green Medics Solutions in July 2022.

Non-teaching staff

Staff Achievement: **Mr. Virendrakumar S. Goswami** completed Ph.D. in Library and Information Science under the guidance of Dr. Vaidehi C. Pandya from Hemchandracharya North Gujarat University in March 2022.

Faculty Felicitations during foundation day:

Dr. Jigna Shah felicitated for publishing a research article in the journal with the highest impact factor.

Dr. Niyati Acharya felicitated for publishing a research article in the journal with the highest impact factor.

Dr. Vivek Vyas felicitated for publishing a review article in the journal with the highest impact factor.

Dr. Charmy Kothari felicitated for receiving major research project from Department of Science and Technology (DST)

Dr. Snehal Patel felicitated for receiving a major research project from Department of Health Research (ICMR).

Dr. Jignasa Savjani felicitated for receiving a major research project from the Board of Research in Nuclear Sciences (BRNS).

Dr. Shital Panchal felicitated for receiving a research project and consultancy from Probiotic Smart LLC, USA.

Dr. Mohit Shah felicitated for the patent [IN373328] granted by Indian Patent Office.

Dr. Bhagawati Saxena felicitated for the patents [AU2021103739 and AU2021104163] granted by the Australian Patent Office.

Dr. Mayur Patel felicitated for writing a book published by B. S. Shah Prakashan, Ahmedabad.

Staff Felicitations:

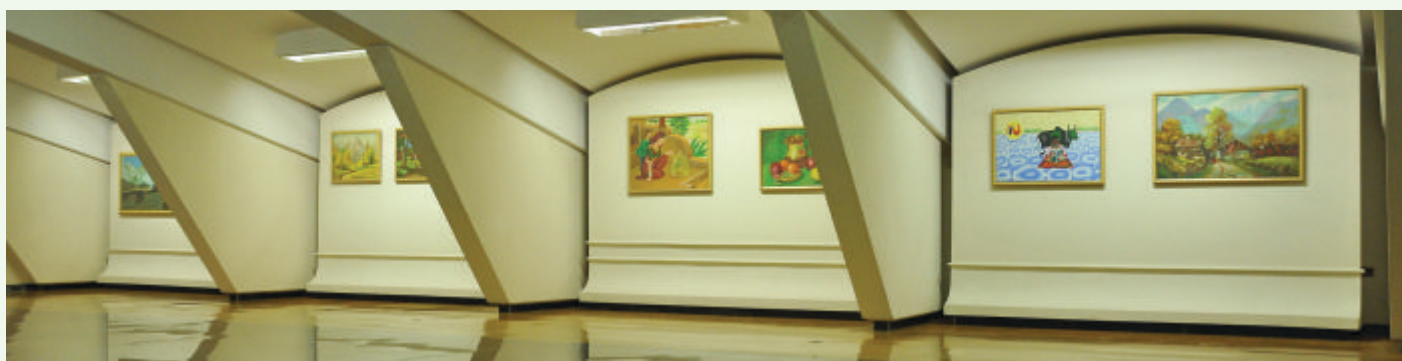
Mr. Shreyas Bhuva felicitated as a special recognition for his performance at CAI

Publication (more than 2 impact factor)

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FORTHCOMING EVENTS

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|--|----------------|
| • Abstracthon 2023 | March 02, 2023 |
| • NirmaQuest 2023 | March 03, 2023 |
| • Euphoria 2023 | March 04, 2023 |
| • CCE, Department of Pharmaceutical Analysis | March 06, 2023 |
| • Patent Workshop, IQAC | March 13, 2023 |
| • CCE, Department of Pharmaceutics | March 24, 2023 |

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- **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/

