

PANKAJ PAL

Associate Professor in Pharmaceutics

Highly accomplished and dedicated professional with Master's in Pharmaceutics, specialized in drug formulation and delivery. Advanced research skills, expertise in designing studies, analyzing data, and proposing innovative solutions. Effective communicator and skilled in scientific writing, teaching, and conveying complex concepts. Self-motivated leader with exceptional problem-solving abilities, adaptable to multidisciplinary teams. Seeking to contribute as an Assistant Professor in Pharmacy, driving advancements in pharmaceutics research and education.

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Meerut, India

LANGUAGE

- English
- Hindi

EDUCATION

C.J.D.A.V Public School, Meerut
Class X
2009

C.J.D.A.V Public School, Meerut
Class XII
2011

EXPERIENCE

Associate Professor cum Principal
Shanti-Niketan College of Pharmacy
April 2023-Till Date

- As an Associate Professor in Pharmaceutics, I have actively contributed to the field of pharmaceutical sciences through a combination of teaching, research, and administrative responsibilities.
- In my role, I have designed and delivered engaging and comprehensive courses in pharmaceutics, equipping students with the fundamental knowledge and practical skills necessary for a successful career in the pharmaceutical industry.
- I have mentored and advised undergraduate and graduate students, fostering their academic and professional development, and have guided several graduate theses and research projects to successful completion.
- My research activities have centered on drug formulation, drug delivery systems, or pharmaceutical nanotechnology, resulting in numerous publications in reputable peer-reviewed journals and presentations at national and international conferences
- In addition to my teaching and research, I have served on various academic committees, contributing to curriculum development, accreditation processes, and departmental initiatives to enhance the quality of education in the field.
- My role has also involved engaging with the broader academic and pharmaceutical communities through participation in conferences, workshops, and seminars, further enriching my knowledge and network within the field.

Assistant Professor
Meerut Institute of Engineering and Technology
Feb 2020 - April 2023

- Developed and taught undergraduate and post graduate-level courses in pharmacy, utilising innovative teaching methods such as case-based learning and active learning strategies.
- Provided personalised instruction, guidance, and support to enhance student learning and academic performance.
- Engaged students in practical, hands-on activities to reinforce theoretical concepts and promote experiential learning.
- Created a positive and inclusive classroom environment that promoted diversity, cultural sensitivity, and respect for all students.
- Stayed up-to-date with the latest advancements and research in the field of pharmacy, integrating current trends and evidence-based practices into teaching materials and discussions.
- Actively sought and implemented student feedback to continuously improve teaching methodologies and enhance the overall learning experience.
- Research Supervision: I have had the privilege of supervising research projects and thesis work for graduate students. This experience has deepened my understanding of research methodologies, data analysis, and scientific writing. It has also highlighted the significance of nurturing a research-oriented mindset among students.

Assistant Professor
IIMT College of Medical Sciences, IIMT University
Aug 2019 - Feb 2020

- Designed and implemented course materials, including syllabi, lesson plans, assignments, and assessments, to ensure alignment with program objectives and student learning outcomes.
- Utilized technology tools and learning management systems to facilitate online and blended learning experiences for students.
- Mentored and supervised undergraduate and graduate students, including advising on research projects, thesis preparation, and career development in the field of pharmacy.
- Conducted regular assessments and evaluations of student performance, providing constructive feedback to support their growth and improvement.

Assistant Professor
NGI College of Pharmacy, Meerut
June 2018 - Aug 2019

- Teaching Excellence: As an Assistant Professor, I have had the opportunity to develop and deliver engaging and effective lectures to undergraduate and graduate students. Through this experience, I have learned to adapt my teaching style to accommodate diverse learning preferences and promote a positive and interactive learning environment.
- Curriculum Development: I have actively participated in curriculum development, helping to design and update courses to align with current industry trends and academic standards. This experience has taught me the importance of maintaining relevance and ensuring that course content addresses the needs of the students and the field of Pharmaceutics.
- Student Mentorship: Serving as a mentor to students has been an enriching experience. I have provided guidance and support to undergraduate and graduate students, advising them on academic matters, research projects, and career pathways. This has reinforced the significance of personalized mentorship in fostering students' professional development.
- Research Supervision: I have had the privilege of supervising research projects and thesis work for graduate students. This experience has deepened my understanding of research methodologies, data analysis, and scientific writing. It has also highlighted the significance of nurturing a research-oriented mindset among students.
- Collaborative Initiatives: Working with colleagues and researchers in multidisciplinary projects has provided me with exposure to diverse perspectives and expertise. Collaborative efforts have taught me the importance of teamwork, effective communication, and leveraging collective strengths to achieve shared goals.
- Continuous Learning: As an Assistant Professor, I recognise the importance of staying updated with the latest advancements in the field of Pharmaceutics. Continuous learning through attending conferences, workshops, and engaging in professional development activities has been instrumental in enhancing my knowledge and skills.
- Effective Assessment Strategies: Developing and administering assessments for students has allowed me to implement various evaluation techniques, providing valuable feedback on their progress and identifying areas for improvement. This experience has reinforced the significance of fair and constructive assessment practices.

ACADEMIC QUALIFICATIONS

Banasthali Vidyapith, Rajasthan

Doctor of Philosophy
(Submitting by the end of 2023)

- Advanced Research Expertise: Demonstrated proficiency in designing experiments, conducting research studies, and analyzing complex data sets.
- Specialized Knowledge: In-depth understanding of drug formulation, drug delivery systems, pharmacokinetics, and pharmaceutical analysis within the field of Pharmaceutics.
- Critical Thinking and Problem-solving: Ability to identify research gaps, propose innovative solutions, and evaluate complex scientific problems.
- Exceptional Scientific Writing and Communication: Strong skills in scientific writing, including research papers, theses, and dissertations, as well as effective communication of complex scientific concepts to diverse audiences.
- Teaching and Mentoring: Proficiency in conveying complex concepts to students, mentoring and supervising undergraduate and graduate students, and contributing to curriculum development.
- Adaptability and Continuous Learning: Strong adaptability to new knowledge and emerging technologies, along with a commitment to staying updated with the latest advancements in the field.

Lovely Professional University, Punjab

Master of Pharmacy in Pharmaceutics
2016-2018

- Pharmaceutical Formulation: Through coursework and practical training, I have gained expertise in formulating various pharmaceutical dosage forms, such as tablets, capsules, creams, and injections. I have hands-on experience in selecting suitable excipients, optimizing drug release profiles, and ensuring product stability.
- Drug Delivery Systems: I have developed a strong understanding of different drug delivery systems, including sustained-release formulations, transdermal patches, and inhalation devices. I can evaluate their mechanisms, advantages, and limitations, allowing me to contribute to the development of novel delivery systems.
- Analytical Techniques: My Master's program has provided me with extensive training in analytical techniques used in the pharmaceutical industry. I am proficient in conducting qualitative and quantitative analysis using instruments such as high-performance liquid chromatography (HPLC), gas chromatography (GC), and spectrophotometry. I am skilled in interpreting analytical data and ensuring compliance with quality standards.
- Research and Literature Review: I have acquired skills in conducting research and literature reviews to stay updated with the latest advancements in pharmaceutics. I can critically analyze scientific literature, identify gaps in knowledge, and propose research hypotheses. I am proficient in using databases, scientific journals, and online resources to gather relevant information.
- Quality Assurance and Regulatory Compliance: I have developed a strong understanding of quality assurance principles and regulatory requirements in the pharmaceutical industry. I am knowledgeable about Good Manufacturing Practices (GMP) and quality control processes to ensure the safety, efficacy, and compliance of pharmaceutical products.

Dr. A.P.J Abdul Kalam Technical University, Uttar Pradesh

Bachelor of Pharmacy in Allopathy
2012-2016

During my Bachelor of Pharmacy, I have developed a strong foundation in pharmaceutical sciences, patient care, and effective communication. Key skills I have acquired include:

- Pharmacotherapy knowledge for safe and effective medication use.
- Accurate dispensing and drug management.
- Proficiency in pharmaceutical calculations and dosage administration.
- Patient counseling and clear communication about medications.
- Understanding of pharmaceutical sciences and drug development.
- Basic research skills for data analysis and literature review.
- Ethical professionalism and adherence to legal regulations.

TECHNICAL SKILLS

- **Pharmaceutical Formulation**: Expertise in formulating various dosage forms, such as tablets, capsules, creams, and injections, including knowledge of excipients, drug release mechanisms, and stability considerations.
- **Drug Delivery Systems**: Proficiency in designing and developing drug delivery systems, including sustained-release formulations, transdermal patches, inhalation devices, and targeted delivery systems.
- **Analytical Techniques:** Experience with analytical instruments and techniques used in pharmaceutical analysis, such as high-performance liquid chromatography (HPLC), gas chromatography (GC), mass spectrometry (MS), and spectroscopy.
- **Pharmacokinetics**: Understanding of the principles and calculations involved in pharmacokinetic analysis, including absorption, distribution, metabolism, and excretion of drugs in the body.
- **Quality Assurance and Compliance**: Knowledge of Good Manufacturing Practices (GMP), quality control processes, and regulatory guidelines to ensure compliance with industry standards and regulations.
- **Pharmaceutical Research Methods**: Familiarity with research methodologies used in pharmaceutical sciences, including study design, data collection, statistical analysis, and interpretation of research findings.
- **Drug Development and Clinical Trials**: Understanding of the drug development process, including preclinical studies, formulation optimization, and involvement in clinical trials.
- **Drug Safety and Pharmacovigilance**: Knowledge of pharmacovigilance practices, adverse event reporting, and risk assessment in pharmaceutical products.
- **Pharmaceutical Technology**: Proficiency in the use of technology tools and software relevant to the field, such as software for formulation optimization, statistical analysis, and data visualization.
- **Regulatory Affairs**: Understanding of regulatory requirements and processes involved in obtaining approvals for pharmaceutical products, including familiarity with documentation and submission procedures.

ACHIEVEMENTS

- Awarded with Rs. 2,500 for securing 3rd rank in academics in B. Pharmacy, BIT, 2012, 2013.
- Secured the 239th state rank in INTERNATIONAL INFORMATICS OLYMPIAD, 2009.

CONFERENCES AND WORKSHOPS ATTENDED

- Attended the 5 Days Faculty Development Program on "Traditional and Artificial Intelligence based training program on handling and care of laboratory animals" organised by Department of Pharmaceutical Technology, MIET, Meerut, 2021.
- Attended the IPR Awareness Workshop in MIET, Meerut, 2020.
- Attended the International Conference on “Impact of Artificial Intelligence in Healthcare”, KIET, Ghaziabad, India, 2020
- Attended the 69th IPC on “Skill and Will to make and serve Quality Pill”, Chitkara University, Rajpura, Punjab, India, 2017
- Attended the seminar on “Scope and development of Entrepreneurship in Pharma and Recent Advances in Pharmaceutical Research”, HHRC, Amritsar, 2017.
- Presented the poster in seminar on “Saffron (Crocus sativus L.) containing ear drops based on eutectic mixture combination for the management of acute otitis media condition”, HHRC, Amritsar, 2017.
- Attended the International Conference of Pharmacy [ICP-2017] on “Pharmacists – Catalysts for change”, LPU, Phagwara, 2017.

PATENTS

- **Pankaj Pal**, Sukesh Kumar Gupta, Shobhit Kumar, Ankur Kumar Tanwar, the novelty resides in the shape and configuration of the “Cloth Disinfector” granted Indian Patent (Design no.- 338938-001)
- **Pankaj Pa**l, Sukesh Kumar Gupta, Shobhit Kumar, Ankur Kumar Tanwar, the novelty resides in the shape and configuration of the “PASS Anaesthesia Chamber” granted Indian Patent (Design no.-343477-001)

PUBLICATIONS

With a robust record of publication in esteemed peer-reviewed journals, my research endeavours have made substantial contributions to the field of Pharmaceutics. Throughout my career, I have actively pursued scholarly investigations and published numerous impactful works. These publications serve as a testament to my expertise and dedication in advancing the knowledge and understanding of pharmaceutical sciences.

To date, I have authored a significant body of work, with a substantial number of peer-reviewed publications to my credit. These include articles, research papers, and scholarly reviews that have appeared in reputable journals renowned for their academic rigour and impact. The quality and relevance of my publications have been recognised through collaborations with esteemed researchers and invitations to present at prestigious conferences.

Through my publications, I have demonstrated not only my ability to conduct comprehensive research but also my proficiency in data analysis, interpretation, and the clear communication of scientific findings. I take pride in my aptitude for distilling complex concepts into accessible and engaging narratives, ensuring that my work resonates with both experts and a broader audience.

Publication as first/corresponding author

TITLE - A REVIEW ON EMERGING SMART TECHNOLOGICAL INNOVATIONS IN HEALTHCARE SECTOR FOR INCREASING PATIENT'S MEDICATION ADHERENCE.
JOURNAL - GLOBAL HEALTH JOURNAL ,VOLUME 5, ISSUE 4, DECEMBER 2021, PAGES 183-189.
INDEXING - SCOPUS
IMPACT - NONE
DOI - https://doi.org/10.1016/j.glohj.2021.11.006

Publication as co-author

TITLE - MECHANISTIC ROLE OF METHANOLIC EXTRACT OF TARAXACUM OFFICINALE ROOTS AS CARDIOPROTECTIVE AGAINST ISCHEMIA–REPERFUSION INJURY-INDUCED MYOCARDIAL INFARCTION IN RATS.
JOURNAL - APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY ,VOLUME 195, ISSUE 5, JANUARY 2023, PAGES 3384-3405.
INDEXING - SCI
IMPACT - 3.1
DOI - https://doi.org/10.1007/s12010-022-04282-z

BOOKS AUTHORED/EDITED

BOOK TITLE - NANOPHARMACEUTICAL ADVANCED DELIVERY SYSTEMS. FIRST PUBLISHED-8 JANUARY 2021 PRINT ISBN:9781119711667, ONLINE ISBN:9781119711698, , DOI:10.1002/9781119711698. © 2021 SCRIVENER PUBLISHING LLC

CHAPTER TITLE - CHAPTER 9 - PHYTOSOMES — NANOARCHITECTURES' PROMISING CLINICAL APPLICATIONS AND THERAPEUTICS.

DOI - https://doi.org/10.1002/9781119711698.ch9

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