VISHWAKARMA UNIVERSITY
Maximising Human Potential
A State Private University under Government of Maharashtra.

Survey No. 2, 3, 4 Laxmi Nagar, Kondhwa Budruk, Pune - 411 048. Maharashtra, India.
Contact : (020) 26950301, 26950302 | Fax : (020) 26950304
Website : www.vupune.ac.in | Email : connect@vupune.ac.in

Faculty: Interdisciplinary Studies

Department: Life Sciences

Name of the Faculty: Dr. Vijay Murlidhar Khedkar

LinkedIn: https://www.linkedin.com/in/vijay-khedkar-a5158316

Google Scholar: https://scholar.google.com/citations?user=CT7X5I0AAAAJ&hl=en

Research Summary:

A highly optimistic and proactive computational medicinal chemist with Ph.D. degree in Pharmaceutical Chemistry (Computational Medicinal Chemistry) and Post-doctoral research experience. Successful track record of executing lead identification and optimization projects by applying molecular modeling techniques.

Strengths in the field include:

- Structure-based drug design (SBDD): Virtual Screening, Molecular Docking, Structure-based Pharmacophore modeling, Receptor-dependent QSAR modeling, Molecular Dynamic Simulation, Homology Modeling.
- Ligand Based Drug Design: Descriptor-based mathematical modeling (QSAR/QSPR), Pharmacophore modeling.
- Sound Knowledge of medicinal chemistry principles & application in addressing drug design challenges.
- Synthesis and purifications of small organic molecules.
- Experience of working in close association with synthetic Medicinal/Organic Chemists & biologists to execute lead identification and optimization projects.

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Name of the Faculty: Dr. Poonam R. Inamdar

LinkedIn: https://www.linkedin.com/in/dr-poonam-inamdar156b8229/?originalSubdomain=in

Google Scholar: https://scholar.google.co.in/citations?user=x2pUe6AAAAAJ&hl=en

Research Summary: Dr. Poonam R. Inamdar is involved in the synthesis of metal complexes, their purification and characterization including the spectroscopic techniques as UV, FTIR, NMR, Mass and TGA, EPR. Her research focus is mainly an exploration of biomolecule interaction studies of the compounds using UV, FTIR, Conductometry, Cyclic voltammetry, Fluorescence spectroscopy, Viscosity and Circular dichroism studies as well as gel electrophoresis studies of the metal complexes for the assessment of DNA cleavage studies.

Name of the Faculty: Dr. Neeta Rai

Designation: Assistant Professor

Research Area Keywords: Herbal formulation, Nanotechnology, Novel drug delivery system, Formulation development, cosmetic formulation.

LinkedIn: https://www.linkedin.com/in/dr-neeta-r-95975079/

Google Scholar: https://scholar.google.com/citations?user=GXh_yacAAAAJ&hl=en

Research Summary: Dr. Neeta Rai has expertise in various formulation developments. She is having excellent knowledge and experience in herbal and cosmetic formulations. She has also worked keenly in novel drug delivery systems. She has two Indian patents, two published books, and book chapters along with many international and national publications in reputed journals with good impact factors.

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Name of the Faculty: Dr. Swati S Mutha

LinkedIn: https://www.linkedin.com/in/swati-bora-mutha-7bb79114/

Google Scholar: https://scholar.google.com/citations?hl=en&user=G3lL-3MAAAAJ

Research Summary:

Dr. Swati Mutha, Professor of Pharmaceutics at Vishwakarma University has research and teaching experience of total over 16 years. Guide dmore than 25 M.Pharm students for their research dissertations, her primary areas of research include conventional and novel drug delivery systems, industrial pharmacy, modified release formulations and acceptability study in patients.

Numerous research articles in various national and international reputed journals and publication houses, various oral and poster presentations in national and international conferences helped her build few niche skills in academic and technical research.

Receiving travel, lodging and boarding 100% grant from UCL (London, UK) for research on „Novel drug delivery systems", PCCA (USA) Best Poster Award in International Conference of EuPFI, 1st prize in International Conference by DPU (Pune, India) and Awarded in International conference by Nirma University are her recent achievements in last 5 years. Additionally, she has received grants from SPPU & UGC, for her research work.

She is presently seeking interdisciplinary partnerships for research in areas like Hospital Pharmacy, Pharmacy Informatics, Pharmaceutical Technology, Pharmacy Automation and Industrial Pharmacy.

Her stupendous academic achievements like „Maharashtra State Topper at D. Pharm. level" and „Institutional Pharmaceutics Topper at M. Pharm. level"sure deserve to be shared herewith.

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Name of the Faculty: Dr. Yogesh Chandrakant Suryawanshi

LinkedIn: https://www.linkedin.com/in/yogesh173
Google Scholar: https://scholar.google.com/citations?hl=en&user=dclPcd8AAAAJ

Research Summary: Completed Ph.D in Botany from Savitribai Phule Pune University in 2019.Publications: published more than 10 research articles in international journals. Area of Interest:

- Plant Biotechnology: Plant tissue culture, Hydroponic techniques,secondary metabolites.
- Botany: Essential Oil and Seed Oil, FAME identifications, FAME andOil variability. TBO‟s variability.
- Fermentation Technology: Different types of fermentation for theenhanced production of ethanol.

Naturopathy: Medicinal and Aromatic Plants.

Name of the Faculty: Dr. (Prof.) D. S. Bhatkhande

Designation: Professor

Research Area Keywords: Waste water treatment, environmental engineering, solid waste abatement, recycle, etc.

Research Summary: Worked for industrial waste water treatment using photo catalysis/ photochemical reactions for Ph.D. The other projects undertaken were in domestic water treatment, sewage treatment, novel filtration techniques, mathematical modelling of liquid extraction process, e-waste abatement and applications, biogas from food waste, toilets, digital twin etc.

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Name of the Faculty:	Dr. Yogesh Dandekar
Designation:	Assistant Professor
LinkedIn:	https://www.linkedin.com/in/yogesh-dandekar-29b0581b4/
Google Scholar:	https://scholar.google.com/citations?user=SIrYsggAAAAJ&hl=en
Research Area Keywords:	Theoretical Physics, Black Holes, Gravitational Physics, Hydrodynamics, Three Body Problem
Research Summary:	I am interested in various topics in Theoretical Physics. These topics includes Black Holes, Hydrodynamics, Gravitational Physics, Quantum Field Theory, Three-body problem. I have performed research on the following problems: connection of black hole dynamics and hydrodynamics, second law for black hole thermodynamics for higher derivative theories of gravity, statistical formulation of the three-body problem, scattering in the three dimensional Chern-Simons matter theory.

Name of the Faculty:	Dr. Sabeena Hussain Syed
Designation:	Assistant Professor
Research Area Keywords:	Ethnopharmacology and Natural Products
LinkedIn:	https://www.linkedin.com/in/dr-sabeena-hussain-syed-a8ab2963
Google Scholar:	https://scholar.google.com/citations?user=NSEkxjEAAAAJ&hl=en&authuser=1
Research Summary:	My research area include Ethnopharmacological studies where scientific validation of traditional herbs in ailment of various diseases through preclinical studies are studied. The research also involves preparation of active extracts through bioguided fractionation and thus isolating potential phytoconstituents through various analytical techniques.

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Name of the Faculty: Dr. Jupinder Kaur
Designation: Assistant Professor

Research Area Keywords: Nano-electronics; Nano-materials; Fullerenes; Sensors; Bio-medical applications; Density Functional theory, Drug delivery applications

LinkedIn: https://www.linkedin.com/in/dr-jupinder-kaur-18392b210/
Google Scholar: scholar.google.co.uk/citations?hl=en&authuser=1&user=WU_1lfcAAAAJ
Research Summary: Area of research involves analysis of charge transport properties of nano-materials like fullerenes, nano-ribbons, molecular junctions etc. using Density functional theory calculations. Further, researching in drug delivery applications of various carbon and boron fullerenes. Actively involved in studying the sensing capabilities of bio-molecules like DNA nucleobases and other boron-based cage like nano-structures. Has worked on dye-sensitized solar cells using SCAPS and Gaussian 09 software packages.

Name of the Faculty: Dr. Om Mahadeo Bagade
Designation: Associate Professor

Research Area Keywords: Particle Engineering, Nanoparticulate Drug Delivery System, Novel Drug Delivery System and Solubility Enhancement,

LinkedIn: https://www.linkedin.com/in/dr-om-bagade-615116157
Google Scholar: https://scholar.google.com/citations?user=eTQ2z9EAAAAJ&hl=en&authuser=1
Research Summary: Dr. Om M. Bagade- A dynamic academician, researcher and professional in the field of Pharmacy. He is a University rank holder at UG and PG level. He has also completed Diploma in Intellectual Property Law from Symbiosis International University, Pune. He did his Ph.D from Savitribai Phule Pune University (SPPU), Maharashtra, India. Currently, he is working as Associate Professor in Pharmaceutics Department, Vishwakarma University, Pune, India. He has shortlisted for interview of Drug Inspector post (MPSC). During his cram he has manifold scholarships rewards on his glory like McKinney (Texas), USA, FFE-Philippines, White Gold Moderate award, AICTE (GATE), Sir Ratan Tata, Sir Dorabaji Tata, Mahindra and Mahindra, and Sir Jindal scholarships etc. He has around 15 years of total experience in teaching and guided more than 10 PG students. He has published more than 55 research and review articles in renowned international journals of reputes with good impact factors and more than 70 research presentations in various conferences and grabs the best research paper awards in many events. Furthermore, he has published around 06 Books, 10 Patents and 07 Book Chapters in National and International level of standard. Moreover, one of his research project in pharmaceutics has been funded by BCUD, SPPU.