



VIVEKANAND
EDUCATION SOCIETY
COLLEGE OF PHARMACY
(AUTONOMOUS)

FROM MOLECULE TO MARKET

YOUR RESEARCH PARTNER AT

VES COLLEGE OF PHARMACY

ACCELERATING DRUG DISCOVERY & DEVELOPMENT WITH CUTTING-EDGE EXPERTISE

In the fast-paced world of pharmaceuticals, every molecule holds the promise of a breakthrough. But the journey from discovery to a market-ready drug is filled with synthesis, optimization, validation, and formulation challenges.

AT **VES COLLEGE OF PHARMACY**, we partner with the industry to provide innovative, high-quality, and validated solutions in drug discovery, preclinical research, and Formulation development.

WHY CHOOSE US ?

01

Industry centric approach with tailored solutions for Pharmaceutical challenges

02

State of the art facilities and cutting-edge research infrastructure.

03

Expert faculty and researchers focused on collaborative research and innovation.

04

Availability of a research advisor with the experience of 40 years in advanced technology

FOR COLLABORATIONS & INQUIRIES:

VES COLLEGE OF PHARMACY

Hashu Advani Memorial Complex, Campus-2, Behind Collector Colony,
Chembur, Mumbai-400074



<https://vespharmacy.ac.in>



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**LET VES COLLEGE OF PHARMACY BE YOUR TRUSTED PARTNER
FOR DRUG DISCOVERY AND FORMULATION DEVELOPMENT**

OUR EXPERTISE

COMPUTATIONAL DRUG DESIGN (CADD) & MOLECULAR MODELING

- Molecular Dynamics Simulations (GROMACS, AMBER, Desmond, NAMD)
- Molecular Docking & Virtual Screening
- Homology Modeling & QSAR (2D/3D)
- Pharmacophore Modeling & ADMET Predictions
- Quantum Chemistry & QM/MM Studies

SYNTHETIC & MEDICINAL CHEMISTRY

- Design & Synthesis of New Chemical Entities (NCEs) & Natural Product Derivatives
- Impurity Synthesis, Characterization & Profiling
- Prodrug Design, Synthesis & Evaluation
- Process Development & Scale-Up
- Purification of Mixtures of organic compounds by Column Chromatography, Extraction and recrystallization

FORMULATION & DRUG DELIVERY INNOVATIONS

- Oral Drug Delivery: Oral solid dosage forms, Immediate Release (IR), Extended Release (ER), and Orally Disintegrating Tablets (ODT) and films
- Novel Drug Delivery Systems: Pulsatile drug delivery systems, floating drug delivery systems, Buccal drug delivery systems, microemulsions
- Topical Drug Delivery: Creams, gels, film-forming systems
- Lipid-Based Drug Delivery: Solid Lipid Nanoparticles (SLN), Nanostructured Lipid Carriers (NLC), Self-Emulsifying Drug Delivery Systems (SEDDS/SMEEDS).
- Nano drug delivery systems: Nanoemulsions, Nanosuspensions, Nanoparticulate systems
- Solubility Enhancement: Cyclodextrin complexation, Amorphous solid dispersions
- Herbal Drug formulations: lozenges, tablets, creams, lotions, sprays and gels
- Nutraceuticals: Gummies

- Quality by Design (QbD) & Optimization: Design of Experiments (DoE) for product development

QUALITY CONTROL, QUALITY ASSURANCE & ANALYTICAL EXCELLENCE

We offer advanced analytical solutions tailored for pharma, cosmetics, & nutraceuticals

- Cutting-Edge Analytical Method Development & Validation
- Bioanalytical method development and validation for Pharmacokinetic studies
- In vitro Release Testing & In vitro Permeation Testing for Topical & Transdermal Formulations
- Quality Control Analysis for Pharmaceuticals, Nutraceuticals & Cosmetics
- Spectroscopic Solutions (UV-Vis & FTIR) for Accurate Material Identification & Quantification
- Stability Studies as per ICH Guidelines
- Quality by Design: Enhancing Product & Method Development

PRECLINICAL RESEARCH

- We provide services from preclinical study protocol preparation to execution and result interpretation for Toxicological and Pharmacological evaluation of Novel Dosage Forms, New Chemical Entities and Herbal extracts.
- Toxicity testing by all routes of administration
- Pharmacokinetic profiling by all routes of administration
- In vivo CNS, Antimalarial, Anti-inflammatory, Analgesic, Anti-diabetic, Anti-hyperlipidemic, Anti-obesity, Hepatoprotective activities can be undertaken.
- In-Vitro Testing of Herbal Extracts
- Consultancy for Protocol writing, Prescription Analysis and Drug Formulary Development

HERBAL REMEDIES AND NUTRACEUTICALS

- Extraction and Isolation of Phytoconstituents
- Formulation and Evaluation of Herbal Product

SERVICES OFFERED

DEPARTMENT OF PHARMACEUTICS

INSTRUMENT/ACTIVITY	PURPOSE	SAMPLE ANALYSIS CHARGES	
		FOR ACADEMICS	FOR INDUSTRY
Malvern Particle Size Analyzer Make : Nano-ZS90	Particle size Zeta potential analysis of Nanoformulations	500 per sample 800 per sample	1000 per sample 1500 per sample
Probe Sonicator Make: Oscar	Particle size reduction	300/sample for 10 min	1000/sample for 10 min
Freeze Dryer Make and Model: Martin Christ; Alpha 1-2 LD Plus	Lyophilization Of Thermosensitive Products	200/h	500/h
Dissolution Tester Make and Model: Lab India/ DS8000, 12 Station	Dissolution Testing Of Immediate Release Solid Dosage Form	300/h	1000/h
Rotary Tablet Compression Machine Make and Model: Mini press Karnavati, 12 station B,BB,D tooling	Tablet Compression	500/h	700/h
High Shear Homogenizer (Ultraturrax Ika T25)	Homogenization of Suspensions, Emulsions	300 per sample (10 mins X 3 cycles with 5 min break)	500 per sample (10 mins X 3 cycles with 5 min break)
Disintegration tester Make : Electro lab	Disintegration testing of solid dosage forms	300/h	500/h
Brookfield Viscometer Make and Model: Brookfield, Model LVDVE	1) Single Point Viscosity Test	200 per sample	500 per sample
	2) Up-Down Rate Ramp study	500 per sample	1000 per sample
Rotary Evaporator Make and Model: Superfit	Drying of Solutions	500/h	1000/h
Orbital Shaker Incubator	Equilibrium Solubility Study	300/h	1000/h
Cold Centrifuge Make : Tarson	For temperature-controlled separation of sensitive samples like plasma from blood	500/h	1000/h
High-Pressure Homogenizer Make : Avestin	Nanosizing	1000/h for 1st hour and 2000/h for subsequent hours	2000/h for 1st hour and 3000/h for subsequent hours
Diffusion cell assembly with autosampler (Make Teledyne Hanson)	For IVRT and IVPT studies	As Per Project	As Per Project
Ultracentrifuge (Make Beckman Coulter/ Optima Max-Up)	For Separation of Nanoparticles	1000/h	2000/h
Double cone Blender (Make Dolphin)	For Mixing and Lubrication of Solids	500/h	1000/h
Cone Mill (Make Ganson)	For Size Reduction and Sieving	500/h	1000/h
Sieve shaker (Jayant)	For Size Separation of Powdered Solids	500/h	1000/h
Gansons Fluidized Bed Multiprocessing System FBPC- 500 Grams	Granulation, Drying, Coating	2000/h	Per hour basis: 4000
Single Station Tablet Compression Machine	Manufacturing of Tablets	1000/h	2000/h
Capsule filing machine (100 capsules per batch)	Filling of Capsules	500/h	1000/h

INSTRUMENT/ACTIVITY	PURPOSE	SAMPLE ANALYSIS CHARGES	
		FOR ACADEMICS	FOR INDUSTRY
Stability Chambers (Make Thermolab) A. 40°C ± 2°C & 75% RH ± 5% RH B. 25°C ± 2°C & 60% RH ± 5% RH *1 Unit can be up to one strip of tablet or capsule, up to 10 patches, or sample in up to 20 ml of vial or upto 100ml bottle.	For Stability Studies of Various Pharmaceutical Formulations	500/month/unit	1000/month/unit
Gansons In ONE machine, High Shear Mixer Granulator HSMG 1 L.	Granulation	1000/h	2000/h
Fluidized Bed Dryer	Drying Of Granules/ Pellets	1000/h	2000/h
Peforated Coating Pan (Ganson's In One machine, 500gms capacity)	Tablet Coating	2000/h	4000/h
Hanningfiled Unimill	Milling (Size Reduction), Sifting (Size Separation)	2000/h	4000/h
BIN BLENDER 2 Litre OCTAGONAL BLENDER 1 Litre	Blending	1000/h	2000/h
Friability Testing	Testing Friability of Tablets	100 per Sample	200 per Sample
Tray Dryer	Drying	500/h	1000/h
Ball Mill	Particle Size Reduction	1000/h	2000/h
Planetary Mixer (1kg)	Mixing and Granulation	1000/h	2000/h

*Charges applicable @ additional 18% GST

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

INSTRUMENT/ACTIVITY	PURPOSE	SAMPLE ANALYSIS CHARGES	
		FOR ACADEMICS	FOR INDUSTRY
Chemical Synthesis	Synthesis Of Small Molecules	As Per Case	As Per Case
Rotary Evaporator (Buchi Make)	Drying/Concentrating of solutions	500/h	1000/h
Consultancy Charges	Technical Consultancy on Formulation Development, QbD and optimization	As Per Project	As Per Project

COMPUTATIONAL CONSULTANCY CHARGES

CATEGORY	SERVICE	DESCRIPTION	TARIFF	
			ACADEMICS	INDUSTRY
Docking & Virtual Screening	Protein-Ligand Docking - Basic	1 target protein, up to 10 ligands; validated docking workflow, binding scores and key interaction snapshots.	2,000 Per Project	4,000 Per Project
	Protein-Ligand Docking - Advanced	1 target, up to 25 ligands; protocol optimization, interaction analysis, publication ready figures and short report.	3,500 Per Project	7,000 Per Project
	Focused Virtual Screening	Structure or ligand based screening of up to 500 compounds against a single target with ranking and detailed analysis of top hits.	10,000 Per Screen	18,000 Per Screen

COMPUTATIONAL CONSULTANCY CHARGES

CATEGORY	SERVICE	DESCRIPTION	TARIFF	
			ACADEMICS	INDUSTRY
Molecular Dynamics (MD)	MD Simulation – Basic	50 ns production run for one biomolecular system (apo or protein–ligand); standard equilibration, RMSD/RMSF analysis.	2,000 Per 50 Ns	5,000 Per 50 Ns
	MD Simulation – Extended	100 ns simulation for enhanced sampling; stability assessment with core trajectory analysis and plots.	3,500 Per 100 Ns	8,000 Per 100 Ns
	MD with Advanced Analysis	50–100 ns simulation plus clustering, key distance monitoring, H-bond and binding-mode stability analysis; figure-ready outputs.	6,000 Per System	12,000 Per System
QSAR & Predictive Modelling	2D QSAR Modelling	Up to 50 molecules for a single endpoint; descriptor calculation, model building, internal validation and performance metrics.	3,000 Per Model	7,000 Per Model
	3D QSAR / Alignment-Based Models	3D alignment, contour maps and interpretative analysis to guide structure optimization.	5,000 Per Model	10,000 Per Model
	Prospective Prediction Using Existing Models	Application of in-house QSAR/ML models to a new dataset (up to 100 molecules) with ranked outputs and brief interpretation.	2,000 Per Dataset	4,000 Per Dataset
ADMET & Property Profiling	Basic ADMET & Drug-Likeness Panel	Up to 25 molecules; multi-parameter ADMET and toxicity endpoints, tabular summary and visual heatmaps.	1,500 Per Batch	3,000 Per Batch
	Extended ADMET / Toxicity Panel	100 ns simulation for enhanced sampling; stability assessment with core trajectory analysis and plots.	3,000 Per Batch	6,000 Per Batch
QM / DFT Calculations	Single-Point QM (HF/DFT)	50–100 ns simulation plus clustering, key distance monitoring, H-bond and binding-mode stability analysis; figure-ready outputs.	300 Per Molecule	600 Per Molecule
	Geometry Optimization & Properties	Up to 80 atoms; optimized geometry, frontier orbitals, charges and key reactivity descriptors.	750 Per Molecule	1,500 Per Molecule
Consultancy & Training	CADD Consultancy	Strategy design, protocol optimization, data interpretation and spectral analysis (online/offline).	1,000 Per Hour	2,000 Per Hour
	Customized Hands-on Workshops	1-day intensive module (e.g. Docking, MD, QSAR) for up to 20 participants, including training material and demo datasets.	20,000 Per Day	35,000 Per Day

*Charges applicable @ additional 18% GST

DEPARTMENT OF QUALITY ASSURANCE

INSTRUMENT/ACTIVITY	PURPOSE	SAMPLE ANALYSIS CHARGES	
		FOR ACADEMICS	FOR INDUSTRY
Fourier Transform Infrared Spectrophotometer (FTIR) Make: Shimadzu Model: IR Affinity-1	Normal Spectrum	150 Per Sample	500 Per Sample
High Performance Liquid Chromatography (HPLC) Make: Shimadzu Model: LC 2010CHT	Qualitative Analysis Quantitative Analysis	500 per sample or 500 per hour of instrument time, whichever is higher	1000 per sample or 600 per hour of instrument time, whichever is higher
High Performance Liquid Chromatography (HPLC) Make: Jasco Model: LC 4000 series	Qualitative Analysis Quantitative Analysis	750 per sample or 500 per hour of instrument time, whichever is higher	1500 per sample or 500 per hour of instrument time, whichever is higher
High Performance Thin Layer Chromatography (HPTLC) Make: Camag Model: Linomat 5 with VisionCATS software	Application, Development and Photo Documentation	As Per Project	As Per Project
Ultra Performance Liquid Chromatography (UPLC) Make: Waters Aquity UPLC H Class-1 A-237	Qualitative Analysis Quantitative Analysis	As Per Project	As Per Project
UV-visible Spectrophotometer Make: Shimadzu Model: UV 1800	Normal Spectrum (Qualitative) Normal Spectrum (Quantitative)	50 per sample or 50 per hour of instrument time, whichever is higher	100 per sample or 100 per hour of instrument time, whichever is higher
Karl Fischer Autotitrator Make: Lab India Model: Titra	Determination of Water Content in Pharmaceutical Raw Materials, Intermediates, and Finished Products	500 per sample	1000 per sample
Method Development & Validation	Customized method development for assay, indicating methods, and validation as per ICH recommendations	As Per Project	As Per Project
Consultancy Charges	Technical consultancy for analytical method development, analytical method validation, formulation, and analytical method development	As Per Project	As Per Project

*Charges applicable @ additional 18% GST

DEPARTMENT OF PHARMACOGNOSY

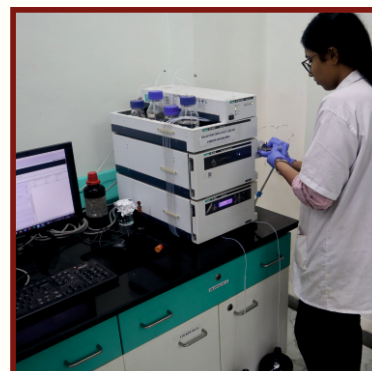
INSTRUMENT/ACTIVITY	PURPOSE	SAMPLE ANALYSIS CHARGES	
		FOR ACADEMICS	FOR INDUSTRY
Phytochemical Extraction & Isolation	Natural Product Lead Identification	As Per Project	As Per Project

*Charges applicable @ additional 18% GST

DEPARTMENT OF PHARMACOLOGY

INSTRUMENT/ACTIVITY	PURPOSE	SAMPLE ANALYSIS CHARGES	
		FOR ACADEMICS	FOR INDUSTRY
Preclinical Evaluation Services	Preclinical Toxicological and Pharmacological Evaluation of Novel Molecules, Novel Dosage Forms, Chemical Entities (Services from protocol preparation to execution and result interpretation can be provided). The facility is equipped with digital plethysmometer, Eddy's hot plate apparatus (Anti Inflammatory and Analgesic activity Evaluation), Rotarod (Skeletal Muscle Relaxant \Activity evaluation), Cook's Pole Climbing apparatus, Actophotometer, Elevated plus maze, Light-Dark Chamber, Balance Beam Apparatus (CNS activity evaluation)	As Per Project	As Per Project

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SAMPLE REQUEST FORM



WHO WE HAVE SERVED

Janssen Pharmaceutica NV Belgium	Pfizer Ltd	Cipla Ltd	Merck Specialties Pvt Ltd
Merck Life Science Pvt Ltd	Isha Therapeutics LLC New Jersey, USA	Teledyne Hanson Research USA	Evonik Industries
Emami Ltd	Gangwal Chemicals Ltd	Cerelia Nutritech Pvt Ltd	Solumiks Herbaceuticals Ltd
Entod Pharma Ltd	Kenpack Pharma	Jolly Nutrients	Paona Chempro Pvt Ltd
Adex Pharmaceuticals Consultancy Pvt Ltd	IMCD India Pvt Ltd	DDP Specialty Products India Pvt Ltd	Crest Cellulose Pvt Ltd
Nvidia Graphics Pvt Ltd	L'amar Natural Products Pvt Ltd Mumbai	Vantage Nutrition LLP ACG Group	Sci-Tesla Labs Navi Mumbai
School of Pharmacy, Queen's University Belfast UK	University of Central Lancashire UK	Ethnomedicinal Research Centre, FEEDS Campus Manipur	Super Vet's Clinic & Diagnostic Center

Collaborations spanning drug discovery, formulation development, analytical services, and preclinical research | Since 2009

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