



# AISSMS



## COLLEGE OF PHARMACY

IMPARTING EXCELLENCE IN EDUCATION & RESEARCH

Accredited by NAAC with 'A' Grade



**Establishment: 1996**

**APPROVED BY**

All India Council for Technical Education

Pharmacy Council of India

Govt. of Maharashtra

**Affiliated to**

Savitribai Phule Pune University

Granted 2(f)-12(B) status by University Grant Commission

## Major Facilities Available

### PHARMACEUTICS

#### Manufacturing Equipments

- ◆ Rotary tablet machine (Karnavati)
- ◆ Capsule filling machine (Gem)
- ◆ R & D Coater (ideal Cures)
- ◆ Spray Dryer (Lab Ultima)
- ◆ Fluidized bed dryer (GEM)
- ◆ Colloidal mill (GEM)
- ◆ Homogenizer (GEM)
- ◆ Probe sonicator (Sonic)
- ◆ Planetary mixer (GEM)
- ◆ Octagonal blenders (GEM)
- ◆ Jacketed vessels (GEM)
- ◆ Freeze Dryer (Labconco, USA)
- ◆ High Pressure Homogenizer (GEA, Italy)

#### Testing Equipments

- ◆ Particle size analyser (Malvern ZS90)
- ◆ Differential Scanning Calorimeter (Mettler)
- ◆ Texture Analyzer (Brookfield)
- ◆ Dissolution test apparatus
- ◆ Brookfield viscometer
- ◆ IR Moisture balance
- ◆ HEPA filters and Laminar air flow unit
- ◆ HPLC (Agilent)
- ◆ Helium pycnometer

### PHARMACEUTICAL CHEMISTRY

- ◆ V-life Molecular Modeling Software
- ◆ Fuming Chambers
- ◆ Rotary vacuum evaporator (Heidolph, Germany)
- ◆ Six Station synthesizer (Radleys, UK)
- ◆ Microwave assisted synthesizer
- ◆ HPLC with UV/FP detector (Jasco)

## Major Facilities Available

### QUALITY ASSURANCE

- ◆ HPTLC ( CAMAG)
- ◆ HPLC (JASCO) with PDA/UV/FP Detector
- ◆ Karl Fischer Instrument
- ◆ UV-Vis Spectrophotometer
- ◆ UV Chamber
- ◆ Photo-stability Chamber (Newtronic)
- ◆ Triple stability Chamber (Thermolab)
- ◆ Packaging Material Test Equipments

### PHARMACOLOGY

- ◆ Digital Plethysmometer
- ◆ Data Acquisition Biopac system (Non-invasive) for blood Pressure measurement
- ◆ Video Tracking system with different types of mazes
- ◆ Stereotaxic Apparatus
- ◆ Randall Selitto instrument
- ◆ Catalepsy Bar Test Apparatus
- ◆ Automated Copulatory Arena
- ◆ Automated Biochemical Analyzer
- ◆ Semi automated URINOVA Lite UA-2100 Urine Analyser
- ◆ Object Recognition Test Apparatus
- ◆ Deep Freezer
- ◆ 3 Chambered Social Test Apparatus

### PHARMACOGNOSY

- ◆ Trinocular Microscopes
- ◆ Microtome
- ◆ Muffle Furnace
- ◆ Rotatory shaker
- ◆ Rota Evaporators
- ◆ Soxhlet Apparatus
- ◆ Vacuum Oven
- ◆ Camera attachment for microscopes

## Services that can be offered :

### Formulation development-

- Small scale manufacturing trials of tablets (includes coating), capsules, semisolids, liquids.
- Taste masking, mouth dissolving drug delivery system, mucoadhesive formulations, transdermal drug delivery system, nanoparticles based drug delivery system, sustained release drug delivery system, cosmetics.

### Testing activities-

Particle size analysis, zeta potential, DSC, Texture analyzer- spreadability and mucoadhesion, viscosity measurements.

### Analytical method development-

Development and validation of analytical & bioanalytical methods, stability indicating assay methods, HPTLC methods for phytochemicals, chemometric analysis of data, HPTLC finger printing.

### Synthetic chemistry-

Design of new chemical entities, ADMET predictions, QSAR, docking, toxicity prediction, anti-inflammatory activity.

Free radical scavenging activity (In-vitro assay)

### Pharmacology and toxicological activities-

Toxicity, biodistribution, preclinical evaluation of pharmacodynamic activities such as analgesic inflammatory, CNS, antioxidant, osteoporosis, diabetes, wound healing.

### Herbal drugs activities-

Extraction, herbal formulations, physicochemical evaluation of crude drugs.

We also provide consultancy services for above areas.

## Contact Details

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