



# Sahyadri Shikshan Sanstha Govindrao Nikam College of Pharmacy, Sawarde



BVPET

In collaboration with  
**Shri. B. V. Patel Education Trust, Ahmedabad**

Under the Aegis of IQAC

**Organizes**

## **TWO DAYS WORKSHOP**

**ON**

### **“Artificial Intelligence & Machine Learning in Pharmaceutical Research: Predictive Modelling, Literature Intelligence and Generative AI-Driven Drug Discovery”**



**GOVINDRAO NIKAM COLLEGE OF PHARMACY, SAWARDE**

**SHRI B. V. PATEL EDUCATION TRUST, AHMEDABAD**

Sahyadri Shikshan Sanstha's Govindrao Nikam College of Pharmacy, Sawarde is one of the leading pharmacy institutions in the Konkan region of Maharashtra, driven by its vision of "Fostering Generations of Scientific-Minded Pharmacists to Spread Health, Hope, and Happiness." The institute is committed to providing quality pharmaceutical education, promoting research culture, and developing competent pharmacy professionals. The college offers undergraduate and postgraduate programs in pharmacy and continuously organizes academic and research-oriented programs for capacity building of students and faculty members. The institution actively promotes interdisciplinary learning and adoption of emerging technologies such as Artificial Intelligence, Data Analytics, and Machine Learning in pharmaceutical education and research.

Shri B.V. Patel Education Trust is established in the fond memory of the First Drug Controller of Gujarat, Shri Bhupendrabhai V. Patel in the year 1974. Vision and Mission of the Trust is educational activities in the field of pharmacy and allied sciences to support pharma industry with skilled scientists / technocrats / management professionals. To fulfil this goal the Trust carries out various programmes like International Symposiums, Hands on Training Workshops, Industry- Oriented Dissertation Programs etc. In addition to this the Trust also organises Shri B.V. Patel Memorial Lecture every year in 'Indian Pharmaceutical Congress' where the winners of Essay Competition also receive medals and cash prize. The Trust is also planning to start Certificate Courses for pharma and allied science graduates to prepare them for industry oriented skilled human resource. The Trust is also working to come up with innovative programmes to support students and promote educational activities in Gujarat. Website: [www.bvpedutrust.com](http://www.bvpedutrust.com)

#### **ABOUT THE WORKSHOP**

Artificial Intelligence (AI) and Machine Learning (ML) are transforming pharmaceutical research, formulation development, and drug discovery. The integration of AI-based predictive modelling and generative AI tools has significantly accelerated drug development processes, improved prediction accuracy, and enhanced research productivity. This two-day hands-on workshop is designed to provide participants with both theoretical understanding and practical exposure to AI-based pharmaceutical research tools. The workshop integrates predictive modelling, literature intelligence, and generative AI-based drug discovery approaches. Participants will gain hands-on experience in dataset handling, model building, predictive analysis, and generative AI tools for drug discovery.



**GOVINDRAO NIKAM COLLEGE OF PHARMACY, SAWARDE**



**APRIL 28TH - 29TH , 2026**

#### **WHO CAN PARTICIPATE?**

- Faculty
- Research Scholars (PG, PhD)

Organizing Committee

**Mrs. Bharati Tare**  
COORDINATOR  
+91-9511278465

#### **CO-COORDINATORS**

First 30  
Seats only

Last Date for  
Registration:  
25<sup>th</sup> April  
2026



**10:00 AM – 5:00 PM (BOTH DAYS)**

#### **REGISTRATION DETAILS**

- Faculty: 750/-
- Research Scholars
- PhD: 750/-
- PG: 500 /-

#### **Bank Details for Payment**

Bank Name: State Bank of India

Account No.: 20136673064

IFSC Code: SBIN0012214

Branch: BAZAR PETH SAWARDE

LINK <https://forms.gle/2HwamNiNgCYuPJWV7>



QR REGISTRATION

- Mr. Mrunal Karanjkar
- Mr. Paras Chavan
- Ms. Pranali Dalvi
- Ms. Snehal Ayanar

## Objectives of the Workshop

To introduce AI and ML concepts in pharmaceutical sciences

- To provide hands on training in predictive modelling
- To develop skills in drug excipient compatibility prediction
- To train participants in solubility prediction using ML
- To demonstrate literature intelligence using text mining tools
- To introduce generative AI in drug discovery
- To develop interdisciplinary research capabilities

### CHIEF PATRON

**Mr. Shekhar Govindrao Nikam**  
President  
Sahyadri Shikshan Sanstha

### Resource Person

**Dr. Swayamprakash Patel**  
Associate Professor  
Department of Pharmaceutics and Pharmaceutical Technology  
Ramanbhai Patel College of Pharmacy  
Charotar University of Science and Technology (CHARUSAT)  
Changa, Gujarat, India

### PATRON

**Mr. Aniruddha Shekhar Nikam**  
Executive Chairman  
Sahyadri Shikshan Sanstha

### CONVENORS

**Dr. Anil P. Battase**  
Principal  
Govindrao Nikam College of Pharmacy,  
Sawarde

**Dr. Neeta Shrivastava**  
Deputy Director  
Shri B.V. Patel Education Trust, Ahmedabad

### CO-CONVENOR

**Mr. Pravin S. Waghchoure**  
Vice-Principal  
Govindrao Nikam College of Pharmacy, Sawarde

### Schedule for the workshop

Time	Session	Key Topics	
10:00 -10:30 AM	-	Welcome and Introduction to the Workshop.	DAY 01
10:00 – 11:30 AM	Session 1	AI vs ML vs DL, Model types, Pharma datasets, Training & evaluation.	
11:30 – 1:00 PM	Session 2 (Hands-On)	Data import, Preprocessing, Train-test split, Model building.	
1:00 – 2:00 PM	Lunch Break	—	
2:00 – 3:00 PM	Session 3	Drug–Excipient compatibility, Descriptors, Feature engineering, Case Study Discussion.	
3:00 – 4:00 PM	Session 4 (Hands-On)	RF/SVM models, Prediction, Validation, Interpretation	
4:00 – 5:00 PM	Session 5 (Hands-On)	Solubility prediction, ML-based excipient selection, Case Study Discussion.	
10:00 – 12:00 PM	Session 6 (Hands-On)	Literature intelligence, Text-mining tools.	DAY 02
12:00 – 1:00 PM	Session 7 (Hands-On)	Generative AI for molecule design & evaluation.	
1:00 – 2:00 PM	Lunch Break	—	
2:00 – 3:30 PM	Session 7 (Contd.)	Advanced molecule generation & analysis.	
3:30 – 3:45 PM	Tea Break	—	
3:45 – 5:00 PM	Session 8	Computational Experimental Workflow integration, Validation strategies, AI in Future Pharma.	