



Two days  
National Seminar  
on



**“Sustaining Comprehensive Feat of the Conservation Approaches for Endangered Species of Medicinal Plants of Chhattisgarh State using Artificial Intelligence”**

Sponsored by  
Chhattisgarh Tribal Local Health Traditions & Medicinal Plants Board  
(CGTLHT & MPB)

Co-Sponsored by  
Jan Pragati Education Society (JPES), Raipur



**October 30-31, 2025**

**Organized By**  
Columbia Institute of Pharmacy,  
Village Tekari, Near Vidhan Sabha, Raipur (CG)- 493111;  
Mobile : +91- 8109777888

Visit us at: [www.columbiaiop.ac.in](http://www.columbiaiop.ac.in); Email: [cipraipur@gmail.com](mailto:cipraipur@gmail.com)  
NBA Accredited (UG Prog - B.Pharm.), DST-FIST Supported (PG Prog - M.Pharm.),  
Approved by Pharmacy Council of India [PCI], New Delhi, Affiliated by Chhattisgarh  
Swami Vivekanand Technical University {CSVTU}, Bhilai

## Executive Committee

<b>Shri. Kishore Jadwani, Chairman, Jan Pragati Education Society</b>	<b>Chief Patron</b>
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<b>Prof. Shiv Shankar Shukla</b>	<b>Professor</b>
<b>Mr. Gunjan Kalyani</b>	<b>Convener</b>
<b>Mr. Sagar Sahu</b>	<b>Organizing Secretary</b>

## Local Organizing Committee

<b>Scientific Committee</b>	<b>Prof. Trilochan Satapathy Dr. Bina Gidwani Dr. Monika Bhairam Dr. Disha Kesharwani Ms. Manisha Verma</b>
<b>Registration &amp; Public Relation</b>	<b>Mr. Shailendra Sharma Ms. Shilpa Sahu Ms. Renuka Verma Mr. Mahendra Sahu</b>
<b>Hospitality &amp; Miscellaneous</b>	<b>Dr. Shashikant Chandrakar Mr. Shiv Kumar Bhardwaj Mr. Rahul Goswami Mr. Swapnil Lal Mr. Piyush Sahu Ms. Ayushi Gupta Mr. Bhishm Sahu Mr. Somesh Agrawal Mr. Gourav Verma</b>
<b>Stage Committee</b>	<b>Ms. Sandhya Mishra Ms. Poonam Sahu Ms. Manisha Verma Ms. Vedika Vaishnav</b>

## About the Institute

Columbia Institute of Pharmacy conducts D. Pharm., B.Pharm., M.Pharm., & Ph.D. courses. The Institute is managed and run by Jan Pragati Education Society. Columbia Institute of Pharmacy is accredited by National Board of Accreditation (NBA), New Delhi twice for UG Course in 2018 and 2022 till 2025. We have DST FIST Supported (PG Prog - M.Pharm.) It imparts the best education in the field of Pharmacy, in Central India. It has lush green campus, modern architecture constructed with ultra-modern facilities.

It constantly produces quality professionals in the field of Pharmacy. B.Pharm course was started in 2006. Post graduation course with specialization in Pharmaceutics and Pharmacology commenced in the year 2010 and in 2017–18 post-graduation courses in Pharmaceutical Analysis and Quality Assurance were started. Recently (2019-20), D.Pharm. and M.Pharm. (Phytomedicine) courses were started by the Institute.

All the courses are approved by PCI, New Delhi, DTE, Raipur and affiliated to CSVTU, Bilai.

All the courses are approved by PCI, New Delhi, DTE, Raipur and affiliated to CSVTU, Bilai. Also, we have B.Pharm. (Practice) Course in our institute. Columbia Institute of Pharmacy is also an approved Research Centre of CSVTU, Bilai for conducting Ph.D programme. It has well-furnished library, sophisticated instrument room, animal house, medicinal garden and library.

## About the Seminar

The convergence of Artificial Intelligence and Machine Learning with plant sciences is catalyzing a transformative shift in biodiversity conservation and ecological research.

Traditional plant identification techniques, while foundational, are constrained by scalability, subjectivity, and reliance on expert taxonomists.

Applications in citizen science, conservation planning, and automated species discovery are critically analysed, with emphasis on interpretability via Explainable AI frameworks such as SHAP and LIME.

This seminar systematically explores the role of AI in advancing plant taxonomy, real-time mobile identification tools, invasive species detection, and large-scale ecological monitoring. It highlights the critical role of curate datasets like Plant CLEF, iNaturalist, and Leaf Snap in training robust AI systems and discusses the integration of hyperspectral, infrared, and LiDAR data to enhance phenotype genotype mapping.

Ethical considerations, including data sovereignty, indigenous knowledge protection, and environmental sustainability of AI models, are also addressed.

Through interdisciplinary case studies and empirical results, this chapter underscores both the promise and limitations of current AI methodologies.

Future research directions include federated learning for collaborative model training, climate resilient AI models for predicting species response under anthropogenic stress, and integration of genomics with AI to reveal cryptic biodiversity.

As plant ecosystems face increasing threats, this seminar positions AI as a vital tool for scalable, transparent, and ethical conservation science.

## Registration Fees

UG Students = Rs 300/-

PG Students/ Research Scholars = Rs 400/-

Academicians/industrialists = Rs 500/-

For online registration, Deposit the registration fees in following bank account:

Name of Bank – ICICI bank

Account No. – 777301000119

IFSC Code – ICIC0000161

Account Holder's Name – Columbia Institute of Pharmacy

Branch – GE Road, Choubey Colony, Raipur.

**Note: Registration will be on first come first serve basis. Please share the transaction details after depositing the fees. There will be no spot registration.**

## Call for Abstracts for Poster Presentation

- a) Abstract are invited for poster presentations that are based on the theme of seminar from Pharmacy, Nursing, Science, Biotechnology and other allied fields.
- b) The abstracts should be maximum of 250 words with 5 keywords and it should be submitted in MS word format, Times New Roman, 12 Font Size, 1.5 line spacing.
- c) The submitted abstract should clearly state the name of presenting author, email id (Presenting author) and affiliation of all the Co-Authors.
- d) Abstract should be submitted through mail at [seminarcolumbia@gmail.com](mailto:seminarcolumbia@gmail.com)

**For more details contact –**

Mr. Sagar Sahu

E-mail: [callmesagarsahu@gmail.com](mailto:callmesagarsahu@gmail.com), Mobile – 9977074545

Mr. Gunjan Kalyani

E-mail: [kalyani.gunjan@yahoo.in](mailto:kalyani.gunjan@yahoo.in), Mobile – 8349204583

**Abstract submission Deadline – October 15, 2025**

**Abstract acceptance – October 20, 2025**

**Last date of registration – October 25, 2025**

**Poster dimensions – 1m x 1m**

# Registration Form



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Name	
Designation	
Qualification and Specialization	
Age	
Experience	
Organization	
Mailing address	
Mobile No	
Email	
Signature and Date	

### Recommendation of Head of the Institute

I hereby recommend Prof./Dr./Mr./Ms. \_\_\_\_\_ to attend two days DST ANRF Sponsored National Seminar in the above institute.

Place:

Date:

Signature and seal of Head of the Institute