



**VAKSANA-2023**  
**4<sup>th</sup> INTERNATIONAL CONFERENCE ON**



भारत 2023 INDIA

**“SUSTAINABLE OPTIMIZATION OF AGRICULTURAL  
PRODUCTION.”**

**SEPTEMBER 15-16, 2023**

**Venue:** Aryabhata Auditorium, SVVV Campus,  
Ujjain Road, Indore, (M.P), India.



**ORGANIZED BY**

**SHRI VAISHNAV INSTITUTE OF AGRICULTURE  
SHRI VAISHNAV VIDYAPEETH VISHWAVIDYALAYA**

Indore-Ujjain State Highway, Indore-453411

Website: [www.svvv.edu.in](http://www.svvv.edu.in)



## ABOUT INDORE

Indore being an educational, IT and commercial hub enjoys an enviable status in the heart of Madhya Pradesh, a state of central India. Indore being a commercial capital of Madhya Pradesh, boasts a well-developed agri-based industrial area in Dewas and Pithampur where major industrial houses have production facilities. Its history depicts a rich and prosperous agricultural production. Various agricultural research institutes such as Zonal Agricultural Research Station, ICAR-Indian Agricultural Research Institute, Regional Station, and Indian Institute of Soyabean Research is located in Indore. Wheat and soybean are the major crops cultivated by the farmers.

Indore has been recognized as the cleanest city of India since 6 years and is also in the first 20 cities to be developed as smart city. Two of the twelve JYOTIRLINGAS of our country, the *Mahakaleshwar* Jyotirlinga and the *Omkareshwar* Jyotirlinga are situated 50 and 85 Kilo meters respectively from Indore. Indore is well-connected by road, rail and air routes.

## ABOUT UNIVERSITY

Shri Vaishnav Vidyapeeth Vishwavidyalaya established under Madhya Pradesh Niji Vishwavidyalaya, Adhiniyam in 2015 at Indore, (M.P), India. The University has been established with a vision to be leader in shaping better future for mankind through quality education, training and research. It shall pursue the mission to make a difference in sustaining the growth of global societies by developing socially responsible citizens. Value based education being at the helm, the University shall promote endurance, excellence, fairness, honesty and transparency as its core values. Some of the objectives of the University are as under:

1. To provide teaching and training in higher education and make provision for research as well as advancement and dissemination of knowledge.
2. To ensure world-class quality in its offerings and create higher levels of intellectual abilities.
3. To create centers of excellence for research and development for sharing knowledge and its applications.

### **The university has following constituent institutions:**

- Shri Vaishnav Institute of Technology and Science
- Shri Vaishnav Institute of Information Technology
- Shri Vaishnav Institute of Textile Technology
- Shri Vaishnav Institute of Forensic Science
- Shri Vaishnav Institute of Architecture
- Shri Vaishnav School of Management
- Shri Vaishnav Institute of Journalism & Mass Communication
- Shri Vaishnav Institute of Science
- Shri Vaishnav Institute of Social Sciences, Humanities & Arts
- Shri Vaishnav Institute of Computer Applications
- Shri Vaishnav Institute of Fine Arts
- Shri Vaishnav Institute of Commerce
- Shri Vaishnav School of Law
- **Shri Vaishnav Institute of Agriculture**
- Shri Vaishnav Institute of Home Science
- Shri Vaishnav Institute of Law
- Shri Vaishnav School of Professional Studies
- Shri Vaishnav Institute of Paramedical Sciences
- Shri Vaishnav Institute of Planning
- Faculty of Doctoral Studies and Research

## **SHRI VAISHNAV INSTITUTE OF AGRICULTURE**

Shri Vaishnav Institute of Agriculture was started in the year 2018. B.Sc (Hons.) Horticulture and B.Sc (Hons.) Agri-business Management has been started from the academic year 2023-24. Students are imparted teaching and training in theory besides hands-on experience as well as honing skills to ensure world-class quality and create higher levels of intellectual abilities in them.

Shri Vaishnav Institute of Agriculture hosts the Centre of Vocational Studies, which imparts training in organic farming, mushroom cultivation, vermicomposting and beekeeping to name a few. The Institute has started post-graduate programs in agriculture in the disciplines of Agronomy, Agricultural Economics, Agricultural Extension Education, Entomology, Genetics and Plant Breeding, Horticulture (Fruit Science), Horticulture (Vegetable Science), Livestock Production and Management, Plant Pathology and Soil Science.

## **VAKSANA**

*VAKSANA* is a Sanskrit term and has many meanings like nourishing, invigorating, refreshing and fertile place. It was found appropriate to use *VAKSANA* for the seminars and conferences by the Institute of Agriculture. All crop production is successful over fertile soil and once this is established, food crops, plantations, fruit plants and even forests give refreshing feeling and invigorate within an individual the sense of satisfaction and joy. And, of course, people also get nourishment from its produce, both food as well as fresh clean air to breathe.

## **ABOUT THE CONFERENCE**

The principal goal of optimization is to improve overall sustainability including environmental sustainability, social sustainability, economic sustainability, and energy resources sustainability through satisfying the objective functions.

Agriculture is the major stream through which sustainability can be achieved to a certain level. Though gains in productivity and technological advances have boosted food production in India, the non-judicious use of available resources has led to the development of barren lands, intensification of natural disasters, increased upsurge in the movement of pests and diseases across boundaries of different countries, and ultimately to climate change, thus threatening the sustainability of agricultural production.

Sustainable agriculture is farming in sustainable to meeting society's present food and textile needs, without compromising the ability of current or future generations. It can be based on an understanding of ecosystem services. To optimize the objective function of the farming community or the nation within a framework of limited resources, there is a necessity for the selection of production patterns and resource use efficiency. The goal of optimization is to discover the best feasible response with the consideration of the problem constraints. Optimization of agricultural production is one of the most important tool for achieving sustainability. Millets can be tool for sustainable optimization of agricultural production, as millets require less fertilizers and pesticides, unlike mainstream cereals, for cultivation and also supply superior nutrients and possess excellent climate resilience properties. In order to achieve Sustainable Developmental Goals (SDGs) and optimize sustainable agricultural production, FAO declared 2023 as the International Year of Millet.

By adopting sustainable practices, farmers will reduce their reliance on non-renewable energy, reduce chemical use and save scarce resources. Keeping the land healthy and replenished can go a long way when considering the rising population and demand for food. Today, there are several opportunities to develop agricultural practices and sustainable agriculture is one of the routes with the most opportunity. To achieve comprehensive sustainable development, using optimization methods and subsequently optimizing the objective functions is very crucial.



## **THEME – Sustainable optimization of Agricultural Production.**

### **SUB - THEMES**

1. Weed management practices for sustainable optimization.
2. Role of irrigation and its judicious use in sustainable agriculture development
3. Soil health management and sustainability.
4. Climate-smart practices for sustainability.
5. Socio-economic livelihood, food security and sustainability.
6. Carbon sequestration and forest management-way towards sustainability
7. Millets-a sustainable solution to agrarian and nutritional challenges
8. Contribution of FPOs, corporates and NGOs for optimality
9. Value addition and marketing linkage for optimality.
10. Doubling farmer's income through sustainable production systems
11. Role of extension education and services in spread of Sustainable technologies to farmers.
12. Sustainable Development-Goals and optimality
13. Conservation agriculture and sustainability
14. IDM and IPM for sustainable agricultural development.
15. Nutrient management practices for optimization.
16. Diversification of agriculture
17. Achieving sustainability through an integrated farming system
18. Management of beneficial insects for sustainable optimization.
19. Policy support for sustainable optimization.
20. Achieving sustainability through livestock and poultry management.
21. Precision agriculture and sustainability.
22. Natural Farming needs for sustainability.
23. Biocontrol for insect and disease management.
24. Production Technology for improving the sustainability and enhancing input use efficiency of horticultural crops.
25. Market Led extension.
26. Climate smart extension.
27. First line or front-line extension system.
28. Biotechnological approaches for enhancing productivity,
29. Genetic improvement of crops: exploitation of genetic resources.
30. Value addition and quality improvement.
31. Characterisation and diversity study in plant pathogens.

### **CALL FOR ABSTRACTS**

Participants are invited to submit abstracts on their original and unpublished research work (maximum 300 words & 06 keywords) that should be written in Times New Roman font, double in spacing with 12 font size using Microsoft Word. Corresponding authors must be highlighted by asterisk (\*) with a complete mailing address. Authors are also requested to submit their own research work in the form of research and review papers on the diverse field of agricultural, environmental and biological sciences, not exceeding 5000 words. Papers/abstracts are to be submitted online along with registration format [yaksana.sviag@gmail.com](mailto:yaksana.sviag@gmail.com) All accepted abstracts will be published in souvenirs having ISBN and a copy will be provided to participants.

## CONFERENCE SESSION

The conference session covering all the sub-themes will be supported by the Invited Talk, Lead Talk, Oral Presentation and Poster Presentation by eminent and leading scientists, teaching faculties and research scholars from India and abroad on the relevant topics of the International Conference through Youtube live.

Oral/Poster presentation confirmation will be sent to the participant's email after the completion of the registration process.

## CONFERENCE REGISTRATION FEE STRUCTURE

Conference Registration Fee is Non-Refundable/ Non-Transferable. The registration fee will cover only hospitality and conference kit. It does not include accommodation charges.

TA and DA is not admissible.

Categories	Indian Participants/SAARC Countries (INR)		Other participants (US Dollar)	
	Before due date	Spot registration	Before due date	Spot registration
Students (UG & PG)	500	600	6	8
Ph.D Scholar/ JRF/ SRF/ RA & YPs.	1000	1200	12	15
Delegates/ Scientists/ Faculties/PDF& others	2000	2400	24	30
Industry	2500	3000	30	40
Accompanying person.	1000	1200	12	15

For further queries and assistance, please contact:

Dr. Ashish Bankar: +91-8421337858

Dr. Archana Kawade: +91-9022593509

Dr. Shital Shinde: +91-9422934529

Registration fee may be sent by bank transfer NEFT/RTGS and by online UPI payment apps. For the registration process, link & form is given on the last page.

Mode of payment & Account details (NEFT/RTGS)	
Name of Account	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore.
Name of the Bank	HDFC Bank Ltd.
Bank Address	Cloth Market, Indore. (M.P), Indore
Account Number	50100282903557
IFSC Code	HDFC0000281
MICR Code	452240003

### Important dates:

Last date for submission of abstracts : 15 August 2023

Last date registration : 30 August 2023

## **ORGANIZING COMMITTEE**

### **CHIEF PATRON**

**Shri. Purushttamas Pasari**  
Chancellor, SVVV, Indore

### **PATRON**

**Prof.(Dr.) Upinder Dhar**  
Vice Chancellor, SVVV, Indore

### **CHAIRPERSON**

**Dr. K. N. Guruprasad**  
Dean, Faculty of Agriculture, SVVV, Indore

### **CONVENOR**

**Prof. Vinod Dhar**  
Coordinator, SVIAg, SVVV, Indore

### **COORDINATORS-VAKSANA 2023-24**

**Dr. Shital Shinde**  
Assistant Professor,  
Agricultural Economics  
SVIAg, SVVV, Indore

**Dr. Archana Kawade**  
Assistant Professor,  
Agronomy  
SVIAg, SVVV, Indore

### **JOINT ORGANIZING COMMITTEE**

Dr. Chhavi Tiwari, Associate Professor & Head, Dept. of Plant Science, SVIAg, SVVV, Indore.  
Dr. Yuvraj Shinde, Associate Professor & Head, Dept. of Plant Protection, SVIAg, SVVV, Indore.  
Prof. Satish Patidar, Assistant Professor of Agronomy, SVIAg, SVVV, Indore.  
Dr. Ashish Bankar, Assistant Professor of Genetics and Plant Breeding, SVIAg, SVVV, Indore.  
Dr. Aslam, Assistant Professor of Livestock and Poultry Management, SVIAg, SVVV, Indore.  
Dr. Jagdish Patidar, Assistant Professor of Plant Pathology, SVIAg, SVVV, Indore.  
Dr. Rajni Solanki, Assistant Professor of Horticulture, SVIAg, SVVV, Indore.  
Dr. Megha Vishwakarma, Assistant Professor of SSAC, SVIAg, SVVV, Indore.  
Dr. Babasaheb Walunjkar, Assistant Professor of Plant Biotechnology, SVIAg, SVVV, Indore.  
Dr. Anu Naruka, Assistant Professor of Genetics and Plant Breeding, SVIAg, SVVV, Indore.  
Dr. Kishor Muthal, Assistant Professor of Horticulture, SVIAg, SVVV, Indore.  
Dr. Vishal Panchal, Assistant Professor of Agronomy, SVIAg, SVVV, Indore.  
Dr. Rashmi Vishwakarma., Assistant Professor of Entomology, SVIAg, SVVV, Indore.  
Dr. Girish Goyal, Assistant Professor of Agronomy, SVIAg, SVVV, Indore.  
Dr. Narayan Gurav, Assistant Professor of Plant Pathology, SVIAg, SVVV, Indore.  
Er. Vishal Patel, Assistant Professor of Agricultural Engineering, SVIAg, SVVV, Indore.  
Dr. Suhas Mane, Assistant Professor of Agricultural Extension Education, SVIAg, SVVV, Indore.  
Dr. P. K. Prajapati, Assistant Professor of Agricultural Extension Education, SVIAg, SVVV, Indore.  
Prof. Naresh Dhakar, Assistant Professor of Agricultural Entomology, SVIAg, SVVV, Indore.  
Dr. P. S. Kamble, Assistant Professor of Agricultural Meteorology, SVIAg, SVVV, Indore.

### **TECHNICAL SUPPORT COMMITTEE**

Mr. Harish Patel, Farm Manager, SVIAg, SVVV, Indore.  
Mr. Nirmal Managre, Office Assistant, SVIAg, SVVV, Indore.  
Mr. Lokesh Baghele, Lab Assistant, SVIAg, SVVV, Indore.  
Mr. Pankaj Panwar, Lab Assistant, SVIAg, SVVV, Indore.  
Mrs. Lata Patel, Lab Assistant, SVIAg, SVVV, Indore.

**4<sup>th</sup> International Conference on**  
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Name in block letter with prefix	:
Designation	:
Complete address of Dept. and Institution with pin code	:
Complete home address with pin code	:
e-mail address	:
Calling contact number	:
What's app contact number	:
Gender	:
Title of Abstract/paper	:
Category of participation: Only participation / poster presentation/Oral presentation/ Lead/ Invited Lecture	:

**FEE RECEIPT**

Cash / NEFT/ Net banking:.....  
Ref. no. ....  
Date: .....  
Conference registration fee (Rs.): .....  
Total amount (Rs.): .....  
Date:.....  
Place:.....

Signature of Applicant

Note: Use the above registration form and send along with the screenshot of the fee receipt via E-mail to [vaksana.sviag@gmail.com](mailto:vaksana.sviag@gmail.com)

**OR**

Use google form link for registration.  
<https://forms.gle/fWcUcMo1A7v8x1sd7>



## Tourist Places near the Conference Venue

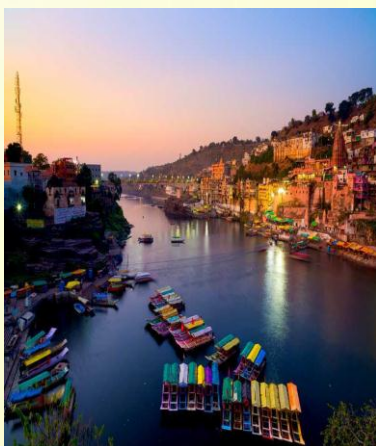
International Conference *VAKSANA-2023* being organized at Conference Hall, Aryabhata Auditorium, SVVV Campus, Ujjain Road, Indore. During September month weather is pleasant and light warm clothes is required. Indore is the cleanest city of India and is famous as a tourist place. Indore traces its roots to its 16<sup>th</sup>-century as a trading hub between the Deccan and Delhi. The city and its surroundings came under Maratha Empire on 18<sup>th</sup> May 1724 after Peshwa Baji Rao-I assumed full control of Malwa. Indore is a bustling city. It is a ‘Smart City’ boasting of a rich past. What is particularly fascinating about this city is its uncanny resemblance to Mumbai-the land of dreams and the financial capital of India. So striking are the similarities between the two cities that Indore is often called ‘Mini Mumbai’.

**Indore Transportation:** Airport, Railway Junction, AC and Deluxe Buses, Ola and Uber Taxi etc.  
**How To Reach Indore:** By Air, Train, Bus, Private Car, Taxi etc. from all states and City of India as well as Abroad.

### TOURIST PLACES NEAR CONFERENCE VENUE IN INDORE (M.P.)



**Mahakaleshwar Temple, Ujjain**



**Omkareshwar**



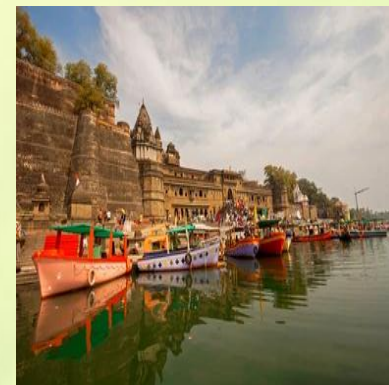
**Ralamandal Wildlife Sanctuary**



**Patalpani Waterfall**



**Mandu, Dhar**



**Narmada Ghat, Maheshwar**