



UNIVERSITY

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"CELEBRATING DREAMS"



INSTITUTION'S
INNOVATION
COUNCIL

(Ministry of Education Initiative)



In collaboration with

2nd International Conference on
Natural Resource
Management: **AI,
Sustainability and
Climate Resilient
Agriculture**

(ICAIA-2026)

January 09-10, 2026



Organised by:

School of Agriculture, ITM University Gwalior

2nd International Conference on Natural Resource Management: **AI, Sustainability and Climate Resilient Agriculture**

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BACKGROUND:

Agriculture in the Indian Subcontinent is facing numerous challenges, such as climate change, growing populations, and dwindling resources. To tackle these issues, Artificial Intelligence (AI) holds immense promise in transforming the way farming works, from improving crop yields to making farming practices more sustainable. AI tools like precision farming, weather forecasting models, and automated irrigation systems are already helping farmers increase productivity and adapt to changing conditions, making agriculture more resilient.

AI is also improving food systems beyond the farm, helping reduce food waste and ensuring better traceability for food safety. Despite these advancements, there are challenges in adopting AI, such as limited access to technology, digital literacy gaps, and infrastructure issues, especially in rural areas. Ensuring smallholder farmers have access to these innovations is key to fostering inclusive growth.

In addition to improving farming practices, AI also plays a key role in the post-harvest phase. By analyzing market trends and predicting demand, AI can help reduce food waste and ensure that produce reaches the right markets at the right time. It can also help improve food safety by enhancing traceability, ensuring that food is grown, harvested, and processed under the highest standards of safety and quality. However, for AI to truly make a difference, it must be accessible to all farmers, particularly smallholders who form the backbone of agriculture in the Subcontinent. One of the biggest challenges is ensuring that these farmers have the necessary access to technology, skills, and infrastructure. In many rural areas, farmers still struggle with limited access to the digital tools and knowledge that would allow them to benefit from AI innovations. Addressing these gaps is essential to making AI a truly inclusive solution for the entire agricultural community.

This conference aims to bring together experts from various fields to explore how AI can create a more sustainable agricultural system in the Indian Subcontinent. Through collaboration and knowledge sharing, the event will focus on how AI can help balance food security and environmental sustainability, ultimately building a more resilient and equitable future for farming in the region.

OBJECTIVES OF THE CONFERENCE:

- The conference aims to provide a suitable forum for eminent academicians, technologists, young researchers and students to exchange their views on the recent developments and future trends in the area of natural resource management.
- The conference will attract business leaders, investors, scientists and government officials to bring together at a common platform to exchange their expertise and experience.
- To generate knowledge on the significance of research in the field of sustainable and judicious use of natural resources.
- To create the avenues for future research, easy and effective applications of available technologies in the field of natural resource management.

THEMES FOCUSED:

The conference will be organized with the following sub-themes:

- AI driven Natural Resource Management
- Role of AI in Vertical and Smart Farming System
- Innovations in Plant Breeding for Promoting Global Sustainability and Food Security
- Strengthening Farmer Resilience and Socioeconomic Adaptation
- Biodiversity Conservation and Indigenous Breeds for Sustainable Livestock and Poultry Farming
- Ecosystem Restoration: Reviving Agricultural Biodiversity
- Integrating Natural Resource Management for Urban Forestry and Landscaping
- Innovative Waste Management Systems for Sustainable Farming

Awards/ recognitions: Best paper presentation awards: Oral and Poster

CALL FOR PAPERS:

Original research papers on the above-mentioned sub-themes are invited for oral /poster presentation. The delegates are required to submit the abstract on mail: icaiapublication.soag@itmuni.ac.in

All accepted abstracts will be published in souvenir of the conference, which will be released in the inauguration of the conference.

GUIDELINES FOR ABSTRACT SUBMISSION:

- An abstract of 300 words with the name of authors, address, objectives of study, methodology, results and conclusion in single space should be submitted before the deadline. Intimation of the accepted abstracts will be done within one week of abstract submission.
- Original research papers on the above-mentioned sub-themes are invited for oral/poster presentation. The delegates are required to select their choice of paper presentation.

GUIDELINES FOR POSTER PRESENTATION:

The poster should be in one piece and systematically arranged in the size of 3' x 2' (36" x 24"). The poster sessions will be judged by a panel of experts during second day (before noon) of the conference.

Publications:

- Journal: Plant Archive (ISSN: 0972-5210, E- ISSN: 2581-6063 (Online))
- Journal: Vegetos (Springer Nature) (ISSN: 0970- 4078)
- Publication charges are subjected as per the requirement of the journal.

NOTE:

- The delegates are requested to strictly adhere to the guidelines.
- Before submitting research paper, the candidates ensure the contents of the paper are plagiarism free.

REGISTRATION FEE AND MODE OF PAYMENT:

Registration for the conference can be done online or the registration form can be filled and sent along with the necessary fee. The details of registration fee are as follows:

S No	Participants	Amount	
		Online	Offline
1	Students (UG)	Rs.1000	Rs. 1200
2	PG Students	Rs.1200	Rs. 1500
3	Ph.D. Scholar	Rs.1500	Rs. 1800
4	Faculty/Scientist/ SRF/RA	Rs.2000	Rs. 2500
5	Industry person	Rs.3000	Rs. 5000
5	Foreign participants	Rs. 5000	Rs. 5000
6	Foreign participants (SAARC Countries)	Rs. 3500	Rs. 3500

Participation fee for the UG students (ITM UNIVERSITY) is Rs.1000/-
Accommodation chargeable at Rs. 600/-z (with dinner) and Rs. 400/- (without dinner).
Publication charges as per the norms of collaborative publication houses

PAYMENT OPTIONS :

PLEASE SCAN THE QR FOR REGISTRATION AND PAYMENT



Registration link: <https://onlineapply.itmuniversity.ac.in/events/ICAIA.php>

REGISTRATION:

The registration fee include: Registration kit, Conference guideline, access to scientific sessions and exhibition, session break coffee, tea, snacks and lunch. (Dinner & accommodation for the guests)

Research scholars (Full time scholar) and students should produce ID or bonafide certificate from the Head of the institution. Registered delegates will receive confirmation letter through e- Mail.

VENUE:

ITM university Gwalior is a multidisciplinary university established in May 2011 by the Act of State Government and Legislature under 2 (f) of the UGC Act and recognized by concerned statutory bodies of government of India like ICAR, AICTE, INC, COA and NCTE etc. The university has an international reputation for the quality of its research and teaching across the academic spectrum. The university has received more than 42 awards and has been ranked in top category by a number of government and independent agencies.

The university is approved by the concerned statutory and regulatory bodies of government of India and M.P. to run courses in agriculture, engineering, management, pharmacy, commerce, architecture, computer application, teacher education, art and design, journalism, physical education, sciences, law, India and South Asia Studies, nursing etc. ITM University is at fore-front of learning, teaching and research in different fields. At academic front, we are also having collaborative programs with United Kingdom (University of Greenwich, London), Staffordshire and further extended this network with other well recognized universities of the globe.

ACCOMMODATION:

- Accommodations will be provided on payment and first come first serve basis in university guest house. The delegates may also manage accommodation in nearby hotels. Please contact undersigned for queries related to accommodation:
- Accommodation may be arranged on request in the hotels / university guest houses on payment basis subject to availability. The request may be sent at icaia.soag@itmuniversity.ac.in
- Gwalior has a number of hotels with tariff starting from INR 600-2500/- onwards per day. Hotels are located within a radius of about 7-10 km from ITM University, Sithouli campus. Those who are desirous to stay in hotel, they are requested to inform the organizers well in time on the above mail

Dr. Sudheer K Pathak - 9473538142

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IMPORTANT DATES:

Last date of Registration with normal fee	December 25, 2025
Last date of Abstract Submission	December 30, 2025
Conference date	January 09-10, 2026

ITM University was established in 2011. In a relatively short time, the University has gained significant recognition for its impressive growth and is emerging as one of the leading private universities in the country. It offers undergraduate, postgraduate, and Ph.D. programs across various fields, including Engineering and Technology, Management, including Agriculture. The University boasts a well-qualified and experienced faculty who serve as mentors to students. The research and outreach initiatives undertaken by the faculty are relevant in the academic landscape, with numerous publications in high-impact professional journals highlighting the quality of research. Our academic programs are bolstered by strong industry partnerships, including seminars, workshops, guest lectures, internships, and placements, which enhance research capabilities and prepare graduates for professional careers. The academic framework of the University is built on four pillars: Effective Teaching and Learning, a Holistic Approach to Education, Industry Integration and Skill Development.

ABOUT GWALIOR CITY:

Gwalior is a historical city of India which is situated in Madhya Pradesh. It is located to the south of Agra, 319 km south of Delhi and 423 km North of Bhopal. Gwalior occupies a strategic in the Gird Region of India and centres of several historic north Indian Kingdoms. It is famous for Gwalior Fort, which has changed hands many times. From the Tomars in the 18th century, it passed to the Mughals, then the Marathas under the Scindias (1754). It is also administrative Head quarter of Narcotics Commissioner of India, Defence Research and Development Establishment (DRDE) and several other Head Quarters of the state. Gwalior is one of the largest cities of Central India and is often referred to as the tourist capital of the Madhya Pradesh.

The climate of Gwalior is sub-tropical. During January 2026, winter conditions prevail with a dry and pleasant atmosphere. The ambient micro-climate of Gwalior during this period is cool and moderate, with the maximum temperature around 20–25 °C and the minimum temperature around 7–10 °C, providing comfortable weather conditions.

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Organised by:
School of Agriculture

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