



NATIONAL CONFERENCE ON

ECO-RESPONSIBLE FARMING TO SUSTAIN NATURAL RESOURCES AND ENVIRONMENT

13th December 2024

**HYBRID MODE - ONLINE /
OFFLINE**

Organised by

ADHIYAMAAN COLLEGE OF AGRICULTURE AND RESEARCH

**Athimugam, Shoolagiri (T.K),
Krishnagiri-635 105**

Permanently to Tamil Nadu Agricultural University &

Approved by Government of Tamil Nadu

ICAR - NAEAB accredited institute.





ABOUT ACAR

Adhiyamaan College of Agriculture and Research (ACAR) is one of the few ICAR accredited and permanently affiliated colleges of Tamil Nadu Agricultural University, Coimbatore. Our college is eight years young, yet equipped well with all the infrastructure facilities showing cent per cent compliance with the requirements of ICAR and TNAU. The college is located at Athimugam Village, Shoolagiri Taluk, Krishnagiri District. ACAR has started B.Sc. (Agriculture) degree program during 2016 with strength of 120 students per year and currently it is offering B.Sc. (Hons.) Agriculture with an intake of 166 students from 2023 onwards.

This institute is suitably located in hotspots of Agriculture and Horticulture with a total area of 121.77 acres, which is well planned and perfectly established according to the norms of Tamil Nadu Agricultural University, Coimbatore. The entire campus is landscaped with twin academic blocks (A & B blocks), dry land, wet land, garden land, orchard, botanical garden, herbal garden, experimental fields, green house, poly house, mist chamber, nursery area, open spaces, play grounds, cattle farm, well planned main road with connecting link roads and light facilities, parking area and other facilities like hospital with evenly spaced-out buildings.

ABOUT CONFERENCE

The global agriculture system is facing the challenges of climate change and environmental degradation. In this context, eco-responsible agriculture is inevitable to ensure the production and productivity of crops safeguarding the ecosystem. The eco-responsible farming practices not only protect natural resources but also contribute to long term farm productivity.

The fundamentals of eco-responsible farming, also known as sustainable agriculture emphasises conservation, resource efficiency and biodiversity. Unlike conventional methods that depend on chemicals and monoculture, sustainable farming aligns with nature, fostering harmony between farming practices and the environment. The sustainable farming practices reduce chemical runoff, prevent soil erosion and lower greenhouse gas emissions which promotes healthier environment. Crop diversity and habitat corridors benefit pollinators, beneficial insects and wildlife, which contributes to a balanced ecosystem.

Eco-responsible farming recognize the urgency of transforming our agricultural system to ensure food security protecting the biodiversity with climate resilient agriculture. By embracing green practices like crop rotation, organic farming and water conservation, we can safeguard soil health and our planet for generations to come. Every farmpreneur should embrace the steps towards a greener and sustainable agriculture.



THEMES



1. ADVANCES IN CROP SCIENCES

- Role of epigenetics for crop improvement - A new paradigm for crop breeding; CRISPR/Cas9 - Application of CRISPR/Cas9 in crop quality improvement - Advanced molecular approaches for crop improvement - Genetic tools for eco-responsible crop development
- Plant biotechnology, a indispensable tool for crop improvement - Role of biotechnology in developing resilient food system and conserving the environment
- Plant tissue culture and micropropagation: Tissue culture of commercial crops - Recent biotechnological strategies for management of agricultural threats
- Recent trends in seed science and research - Bio-Priming - Application of AI in seed quality assessment

***Send the abstract to
ncercropimprovement@acar.ac.in**

2. GREEN TECHNOLOGIES IN CROP PRODUCTION



- Climate Smart Production System - Agrochemicals and fertilizers for future - Crop rotation and diversification - Organic farming - Efficient irrigation techniques
- Crop yield optimization through precision farming - Storage enhancement in agricultural soils - Innovative approaches and techniques in soil remediation
- Sustainable management of natural resources - Agro eco-friendly practices of soil health management - Soil degradation and soil pollution by nano plastics and its effect on agriculture - Climate resilient agriculture
- Microbial contribution to plant growth and development
- Biochemical and physiological mechanisms in plants to overcome biotic and abiotic stresses.
- Role of farm mechanization in enhancing the agriculture production - Application of data analytics, softwares and models in modern agriculture - Profitable precision farming and newer gadgets in agriculture - Digital transition of farming enterprise
- Backyard poultry farming as a source of revenue - Scarcity cattle feeds and fodder during extreme climatic conditions

***Send the abstract to
ncercropmanagement@acar.ac.in**

3. ENVIRONMENT FRIENDLY PLANT PROTECTION

- Newer approaches in pest management for sustainable agro system - Beneficial and productive insects of the ecosystem - Threats of invasive insect pests and their management - Bio-intensive integrated pest & disease management - Ecological engineering for sustainable plant protection - Bio-rational ethics for eradication of biotic threats in Agriculture/Horticulture - Bio/Nano/AI based plant protection
- Mushroom and biocontrol production technology
- Emerging problems of plant parasitic nematodes and their management



***Send the abstract to
ncercropprotection@acar.ac.in**

4. TRANSFORMATION OF PRESENT TOT STRATEGIES FOR EFFECTIVE REFORMATION



- Interventions in HRD, investigation, ICT, process (Adoption & Diffusion studies), developmental policies, entrepreneurship - Socio-economic & psychological dimension of farm sustainability - New education policy on international perspective (skill development & online education) - Multidisciplinary academic and research work in higher educational institutions - Public Private Partnership - Learn from farmers - Benchmark to scale up agri startups - App for agricultural innovation and transformation
- Economic and ecological cost benefits of greener agricultural practices and its significance for economic development - Linking global leaders, innovators and inventors to feed the future
- Green entrepreneur and their eco-friendly products - Cooperative farming for commercial agriculture - Experience with entrepreneurs

***Send the abstract to
ncersocialscience@acar.ac.in**

5. RESOURCE EFFECTIVE HORTICULTURE

- Horticultural crops and nutritional security - Eco-friendly production and productivity of horticultural crops - Export oriented organic production of horticultural crops - Urban horticulture - Mass production of under-utilized horticultural crops - Modern propagation techniques in horticultural crops - Enhanced techniques in conservation of horticultural and forestry crop - Eco-responsible Hi - tech horticulture (Precision Horticulture & Protected Horticulture) - Horticultural Therapy
- Value added products of horticultural crops - Dietary diversification - End hunger - Achieve food security - Improved nutrition and sustainable agriculture - Food & nutritional security through agriculture ecosystem - Post-Harvest Technology - Research, Development & Marketing trend in global food technology



***Send the abstract to
ncerhorticulture@acar.ac.in**

6. CONTRIBUTION OF RESEARCH PAPERS TO THE CONFERENCE IN TAMIL



***Send the abstract to
ncertamil@acar.ac.in**

CALL FOR PAPERS

The abstract and full length papers are invited from the students of final year farm gradunds, farm graduates, science graduates, JRF, SRF, RA, researchers and academicians for oral/poster presentation. All abstracts and full length papers will be sorted for oral / poster presentation after a blind peer-review process.

Submitted papers must be an original research work and should not have been previously submitted for publication or presented elsewhere.

ABSTRACT

Abstract in MS word, Times New Roman font 12, line spacing of 1 highlighting the results of the work not exceeding 300 words should be in the format: Title (Capital and bold with font size 14, Authors Name (bold with font size 12) and Affiliation (Address of the institution with e-mail ID of corresponding author) and Keywords. Corresponding authors should be identified with an asterisk (*).

FULL LENGTH PAPER

The submitted abstract and full length manuscript will be peer reviewed and published as conference proceedings with ISBN number. The full length paper should include Title of the paper, Authors, Affiliation, Introduction, Review of Literature, Material and Methods, Results and Discussion, Table (at least one), Figure (at least one) and References. The soft copy of the abstract and full length paper may be sent through email-id given below, on or before 17.11.24.

Theme 1: ncercropimprovement@acar.ac.in
Theme 2: ncercropmanagement@acar.ac.in
Theme 3: ncercropprotection@acar.ac.in
Theme 4: ncersocialscience@acar.ac.in
Theme 5: ncerhorticulture@acar.ac.in
Theme 6: ncertamil@acar.ac.in

Note: The accepted abstracts will be published in conference souvenir and selected full length papers will be published in the selected NAAS rated journal

KEYNOTE SPEAKERS

Invited plenary lectures will be delivered by renowned experts in their respective fields.

GUIDELINES FOR POSTER AND ORAL PRESENTATION

Authors are requested to indicate their choice for oral/poster presentation. The scientific committee will determine whether the paper is suitable for oral or poster presentation. The poster should clearly present the title, the author (s) name (s), affiliation (s) and address. The size of the poster should be with a dimension of 100 cm x 100 cm, with content that is easily readable from a distance of 2-3 meters.

Each oral presentation is limited to 10 minutes, inclusive of discussion, with a maximum of 10 slides in MS PowerPoint. Presentation certificates will be issued solely to the presenting author. Awards will be granted for outstanding oral and poster presentations.

If the participant is willing to present their research paper in Tamil, can present in the separate session which is organized during the conference and they need to be send the abstract in TAMIL only.

*Note: The students pursuing and completed UG degree can present their innovative ideas with reference to agriculture and allied sectors during the conference. **BEST INNOVATOR AWARD** will be given for the best idea.*

WHO CAN ATTEND?

Final year farm gradunds, farm graduates, science graduates, Post-Doctoral Fellows, JRF, SRF, Research Associate (RA), Faculties, Academicians and Scientists.

TECHNICAL SESSIONS

- Expert lectures of Keynote speakers
- Technical sessions for Oral and Poster Presentation
- Innovative ideas in Agriculture and Allied Sector
- Competitions for participants
- Plenary and Concluding Sessions

CONFERENCE AWARDS AND HONORS

Awards will be given to the enrolled participants. Participants are requested to upload the softcopy of their biodata along with the achievements in the google forms on or before 17.11.2024. the details of awards to be conferred during the conference are,

- **Young Scientist Award**
- **Student of the Year Award**
- **Best Faculty Award**
- **Best Innovator Award (UG students only)**
- **Women Scientist Award**
- **Best Researcher Award**
- **Best M.Sc./ Ph.D. Thesis Award**
- **Best Extension Worker Award**

Note: The recipients of awards will be informed and they are requested to send a sum of Rs.1000 as processing fee. In addition, the oral/poster presentation will be evaluated by a committee and best oral/poster presentation in each theme will be awarded in the valedictory session

ACCOMMODATION & FOOD

Accommodation and food will be provided at **FREE OF COST** on **FIRST COME FIRST SERVE BASIS**. Limited rooms are available, **Hurry Up**.

TRANSPORT

Transport facility is arranged from **Shoolagiri (7.30 AM - 8.00 AM)**.

REGISTRATION FORM

<https://forms.gle/N7ZD8gT4aeDrHLLk8>

REGISTRATION FEE

UG/JRF Rs. 250

PG/Ph.D./SRF Rs. 500

RA/PDF/Faculty/Academicians Rs. 750

Scientists Rs. 1000

BANK DETAILS

Ac. Name : ADHIYAMAAN COLLEGE OF AGRICULTURE AND RESEARCH

Ac. No : 086902000000527

Branch : KUMUDEPALLY

IFSC : IOBA0000869

IMPORTANT DATES

Deadline for Registration: 17.11.2024

Deadline for Submission of Abstract: 17.11.2024

Acceptance of Abstract: 19.11.2024

Deadline for Full Length Paper Submission: 24.11.2024

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Thiru. K. Suresh Babu, Trustee

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