

## COURSE CONTENT AND CLASS ROOM MODULES

- > Organic Farming/Natural Farming - Present status in different states of India
- > Principles and practices of Organic farming/Natural Farming for sustainable soil and crop production
- > Recent developments in nutrient management in Non chemical farming
- > Disease management, insect pest management and weed management strategies in organic production systems
- > Role of Soil biota in Non chemical farming
- > Soil health/quality indicators under organic farming / Natural farming systems
- > Andhra Pradesh Community Natural Farming (APCNF) - Present status and future perspectives
- > Organic Farming Policy and Certification in different states of India.
- > Demonstrations/Hands on experience, field visits
- > Practical demonstrations on isolation techniques of microbes,
- > Preparation of liquid and solid organic manures.
- > Visit to Organic Farming/Natural Farming fields

## ELIGIBILITY

This Short Course is meant for Researchers/ Teachers/ Extension Scientists in SAUs/ ICAR Institutes in the cadre of Assistant Professors or equivalent and above in the field of Soil Science/ Agricultural Microbiology/ Agronomy/ Crop Physiology/ Entomology/ Plant Pathology/Agricultural Extension. A maximum of 30 participants will be selected for the course by the University as per the ICAR guidelines.

## TRAVEL, LODGING AND BOARDING

- > Participants will be paid for the journey, to and fro, restricted to AC-II tier train fare or bus or any other means of transport in vogue, as the case may be.
- > Actual TA for the shortest route will be paid on production of the tickets.
- > Free lodging and boarding will be provided to the selected candidates during the short course period.
- > Participants are requested to make his/her own arrangement of transport to reach at RARS, Anakapalle.
- > The local candidates are not eligible for boarding and lodging, however, the local hospitality (lunch, tea, snacks etc.) will be provided to them.
- > Participants are requested not to bring their spouse or any family members as there is no scope for their accommodation.

## LOCATION AND CLIMATE

The Regional Agricultural Research Station, Anakapalle, Andhra Pradesh is located at 17.38° N latitude, 83.01° E longitude and 28.62 M altitude on Anakapalle-Chodavaram Road, is 40 km away from Visakhapatnam. The research station is located about 0.5 km to Anakapalle railway station and 30 km from the International Air Port, Visakhapatnam. The weather during proposed period is expected to be pleasant and comfortable in Anakapalle.

## DURATION OF TRAINING

Duration of short course is 10 days from 15.11.2023 to 24.11.2023 (both days inclusive). The participants are expected to arrive at RARS, Anakapalle latest by evening of the 14th November, 2023 and can leave after 17.00 hrs on 24th November, 2023

## REGISTRATION FORM

### Application form for participation in the 10 days short course on Organic Farming/Natural Farming Principles and Practices (15.11.2023 to 24.11.2023)

- Name (in block letters) : \_\_\_\_\_
- Designation : \_\_\_\_\_
- Institute where participant working : \_\_\_\_\_
- Address for correspondence : \_\_\_\_\_
- Permanent address : \_\_\_\_\_
- Phone No. \_\_\_\_\_ 6. Email. \_\_\_\_\_
- Sex \_\_\_\_\_ 8. Marital status : \_\_\_\_\_
- D.O.B : \_\_\_\_\_
- Participation in any Winter school/Summer school/Short course during previous year under ICAR/SAUs : \_\_\_\_\_
- Academic qualifications :  
Degree Year Subject University OPGA  
Bachelor degree  
Master degree  
Other degree  
Place : \_\_\_\_\_ Date : \_\_\_\_\_ Signature of the Applicant



## National Training on ORGANIC FARMING/NATURAL FARMING PRINCIPLES AND PRACTICES (15.11.2023 to 24.11.2023) Short Course (10 days) (ANGRAU, IDP-NAHEP sponsored)



Organized by  
Acharya N G Ranga Agricultural University  
Regional Agricultural Research Station  
Anakapalle – 531 001 (A.P.)

## National Training on Organic Farming/Natural Farming Principles and Practices

### Chief Patrons

**Dr. R. Sarada Jayalakshmi Devi**  
Hon'ble Vice-Chancellor  
ANGRAU, Lam, Guntur

**Dr. Rakesh Chandra Agarwal**  
Deputy Director General (Agril. Education)  
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Director of Extension, ANGRAU

**Dr. G. Rama Rao**,  
Dean of PG Studies, ANGRAU

**Dr. A. V. Ramana**,  
Comptroller, ANGRAU

### Convener

**Dr. P. V. K. Jagannadha Rao**, Associate Director of Research  
Regional Agricultural Research Station, Anakapalle

### Course Director

**Dr. Ch. S. Ramalakshmi**, Principal Scientist (Soil Science)

### Course Co-Directors

**Dr. Ch. Mukunda Rao**, Principal Scientist (Crop Physiology)  
**Dr. A. Sireesha**, Principal Scientist (Soil Science)

All correspondence should be sent to

The Course Director,  
RARS, Anakapalle  
ch.sitaramalakshmi@angrau.ac.in  
9441210903

The Associate Director of Research,  
RARS, Anakapalle  
adr.rarsakp@angrau.ac.in  
9989625211



## About ANGRAU

Acharya N. G. Ranga Agricultural University (ANGRAU) at LAM, Guntur is serving the students and the farmers of 26 districts of Andhra Pradesh with renewed interest and dedication. Main mandate of the University is to train human resources needed for agriculture, agricultural engineering, community science and allied sectors for the development of the State of Andhra Pradesh through Education. To constantly strive to generate technologies for increasing production, productivity and profitability through interventions in the field of Agriculture, Agricultural Engineering & Technology, Community Science and allied sectors through research and to assist in the process of transfer of technology through the dissemination of knowledge in collaboration with the Agriculture and allied Departments of the Government through Extension studies.

## About RARS, Anakapalle



Regional Agricultural Research Station (RARS), Anakapalle Andhra Pradesh established in 1913 and completed 100 years of centenary with a motto of Perfection in Sugarcane research and service to farmers. It is the Headquarters for North Coastal zone of Andhra Pradesh and sugarcane is the lead crop on which active research is being carried out. The research station farm consists of 103 acres. This research station achieved number of mile stones in sugarcane research leaving an incredible mark on sugarcane research. This research station has released 20 sugarcane varieties and majority were cultivated by the sugarcane farmers and widely accepted by sugarcane industry not only in Andhra Pradesh but also in neighbouring states of Orissa, Tamil Nadu and Karnataka. The core research areas include varietal development, cropping and farming system research, organic agriculture, biological control methods and post-harvest technology. Many implementable technologies developed from this research station are well recognized and adopted in many parts of the Country. Well established referral laboratories for Soil Science, Jaggery, Tissue culture, Microbiology, Bio-control and Virus indexing are being operated in the research station and also having commercial production units of biofertilizers, biocontrol agents, jaggery and its value added products.

## About Short Course

Deteriorating soil health due to imbalanced application of nutrients, indiscriminate use of synthetics in crop production especially for pest and disease management, increasing frequency of failure of crops due to weather vagaries, reducing net income due to market driven inputs, increasing awareness among consumers especially on healthy and residue free products have heightened the demand for promotion of organic agriculture in India. During the past decades, agricultural development focused mainly on short-term gains in productivity, which has been based on external inputs resulting in neglect and improper use of local resources. This has caused severe damage to soil health and environment. Sustainable agriculture through non chemical approaches is of prime importance in the present conditions of rapidly increasing human population and decreasing cultivable land resources. These changes have opened new vistas for a change in farming practices. Evidence suggests that organic systems help to improve and sustain the productivity and quality of farm produce besides protecting the soils and the environment. There is sound evidence that productivity of organic systems can be brought to the level of conventional systems or even higher by adopting proper package of practices. Appropriate soil management and conservation techniques must be adopted to restore the soil quality and productivity for sustainable agriculture to feed the current and coming generations. The basic objective of the course is to acquaint the participants with the latest issues and recent innovations in organic production/natural farming systems. This course would offer the theory and practical oriented understanding of the technologies for improving production and quality of produce. This will help the participants to understand management strategies better for their future planning of research, teaching and extension in non chemical farming.

## National Training on Organic Farming/Natural Farming Principles and Practices

### COURSE CONTENTS

1	Principles and Concept of Organic / Natural farming
2	Organic / Natural farming - Historical Perspectives, Current Scenario and Future vision in India
3	Soil Regeneration through non chemical approaches
4	Impact of global climate change on Natural Resources
5	Importance of Soil Biota and their contributions to Sustainable Agriculture
6	Agroecological approaches for sustainable crop production
7	Crop residue management-A tool for nutrient cycling and soil quality
8	Recent developments and Nutrient management options under Organic / Natural farming
9	Organic / Natural farming technologies in Rainfed Agriculture
10	Organic / Natural farming status in Telangana state
11	Production technologies and quality indicators for different solid and liquid organic manures
12	Soil health management technologies for sustainable agriculture
13	Processing and value addition of organic products
14	Hands on experience on preparation of solid and liquid organic manures
15	Andhra Pradesh Community Natural Farming-Present status and future perspectives in AP
16	Integrated Disease Management under Non chemical farming
17	Novel Biocontrol agents for non chemical farming
18	Hands on experience on isolation techniques at Biocontrol laboratory
19	Water quality and management in organic production systems
20	365 DGC Concept in Natural Farming
21	Crop planning for Conversion to non chemical farming
22	Integrated Weed Management in Organic / Natural farming
23	Key indicators for soil health in different production systems
24	Disease management through non chemical approaches in cereals, pulses and oilseeds.
25	Pest management strategies in non chemical farming
26	Hands on experience on preparation of different Astras for pest management in Organic farming/ Natural farming
27	Status of Organic Farming/Natural Farming Research in ANGRAU
28	Soil and water conservation technologies for sustainable farming
29	Carbon credits under organic production systems
30	Soil Resource management for sustainable crop production
31	Operational structure of Organic Policy, Certification and Marketing in different states of India

## Important Dates

Last date for receipt of application : 28.10.2023  
Confirmation of participants (by email) : 01.11.2023