

How to apply

- The participants will have to apply online at the CBP portal at <https://cbp.icar.gov.in>
- Login using your User ID & password.
- To create User ID Use "Create New Account" link. Click on "Participate in Training" link and fill the proforma.
- Download filled form, print and sign and get themselves nominated through proper channel and send scanned nomination form by email to sbnrao@gmail.com.
- The application in the format along with requisite fee should also be submitted through proper channel to reach Dr. S.B.N. Rao, Principal Scientist & Incharge, Animal Nutrition Division and Course Director, National Institute of Animal Nutrition and Physiology, Hosur Road, Adugodi, Bengaluru-560 030. on or before 20.12.2021.
- An advance scanned copy with signature of Head of the Organization should also be sent through email (sbnrao@mail.com).
- An amount of Rs. 50/- (Non-refundable) has to be paid for registration. Payment may be made through online in the account of **"ICAR UNIT NIANP" BANGALORE. Bank: State Bank of India, A/C No. 30295508819, Branch Name: St. Marks Road Bangalore; IFSC Code: SBIN0000813; MICR Code: 560002057.**

Important dates

Last date of application :	December 20, 2021.
Intimation of selection :	December 25, 2021.
Confirmation by participants :	January 03, 2022.
Publishing final list of participants :	January 05, 2022.

Patron

Dr. Raghavendra Bhatta
Director
ICAR-National Institute of Animal Nutrition and Physiology, Adugodi, Bengaluru – 560 030.

Contact for further details

Course Director

Dr. S. B. N. Rao
Principal Scientist & In-Charge
Animal Nutrition Division
ICAR-National Institute of Animal Nutrition and Physiology, Adugodi, Bengaluru-560030.
Email: sbnrao@gmail.com
Mobile: 9880437543

Course Co-ordinators

Dr. M. Chandrasekhariah
Principal Scientist
Animal Nutrition Division
ICAR-National Institute of Animal Nutrition and Physiology, Adugodi, Bengaluru-560030
Email: chandrasekhariah_m@yahoo.com
Mobile: 9448845173

Dr. N. M. Soren
Principal Scientist
Animal Nutrition Division
ICAR-National Institute of Animal Nutrition and Physiology, Adugodi, Bengaluru-560030
Email: drmanik75@gmail.com
Mobile: 9740726129

Dr. Gopi M
Scientist
Animal Nutrition Division,
ICAR-National Institute of Animal Nutrition and Physiology, Adugodi, Bengaluru-560030
Email: getgopi72@gmail.com
Mobile: 9927034613

For further details:

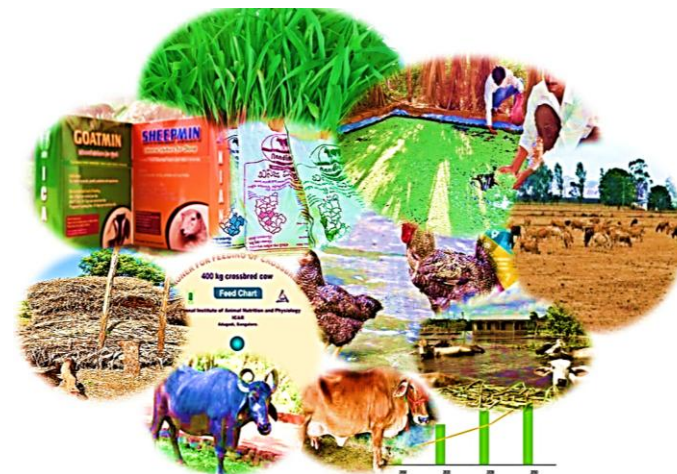
Please visit: <http://www.nianp.res.in/>

Announcement-cum-Invitation

Winter School on

Recent Advances in Nutritional Technologies for Doubling the Farmers Income Under Changing Climate Scenario

(February 22 - March 14, 2022)



Sponsored by

**Indian Council of Agricultural Research
New Delhi**

**ICAR-National Institute of Animal
Nutrition and Physiology
Adugodi, Bengaluru-560030
Karnataka**



NIANP, Bengaluru

ICAR-National Institute of Animal Nutrition and Physiology (ICAR-NIANP), Bengaluru is a premier institute under aegis of Indian Council of Agricultural Research, takes pleasure to announce ICAR sponsored 21 day Winter School on 'Recent Advances in Nutritional Technologies for Doubling the Farmers Income' Under Changing Climate Scenario from 15/02/2022 to 07/03/2022 (21 days).

ICAR-NIANP is constantly pursuing to work on Nutritional Technologies in multi-disciplinary mode. Nutritional technologies play an important role in improving the productivity of livestock in terms of growth, production, reproduction and health. They, further help in combating the livestock from adverse effects of climate change.

Location

The campus is located 8 km from city railway/ bus station, 15 km from Yeswantpur railway station. Pre-paid taxi/ auto can be availed at Bengaluru railway/ bus stations to reach NIANP, Adugodi, (opposite to MICO factory service gate, Hosur Main Road). Bangalore will be comfortable during the month of February-March and light woollen are preferred during nights.

Objective of the course

The objective of the course is to refresh and update the knowledge of teachers, researchers and specialists working in SAUs/Veterinary Universities, ICAR institutes and KVKs regarding promising nutritional technologies which has potential to augment farmers income.

Eligibility

Master's Degree /equivalent and working not below the rank of Scientist/Assistant Professor/ Equivalent in the concerned subject under SVU/SAU/ICAR/ICAR recognized institute/ CAU. Outstation participants are requested to arrive latest by night of 14th February and plan to leave after 5 PM on 07th March, 2022.

Maximum of number of seats: 25

Course Concept

Animal husbandry along with Agriculture plays an important role in rural economy in providing livelihood and nutritional security and forms the backbone of farming activities. It is projected that, the demand for animal products will be doubled at both the national and global level due to increased human population, urbanization and per capita income. Feed cost alone accounts for more than half of the recurring cost of livestock production. For maintaining profitable livestock production, the animals should be fed with proper balanced diets. Under the climate change and global warming scenario, the feed quality and quantity would be affected greatly thereby livestock productivity. In view of this, efforts are being made worldwide, to reduce the impact of climate change on livestock growth, production, reproduction, immunity and health. Therefore, this course focuses on application of promising nutritional technologies for improving the livestock productivity, which aid in enhancing the income of farmers thereby realizing the dream of doubling the income from overall agricultural activities under climate change scenario.

Course contents

- Feed resource assessment and current feed evaluation techniques.
- Nutritional strategies for better production, reproduction, health and immunity.
- Micro-nutrients, formulation of mineral mixtures and estimation
- Ration balancing and user friendly smart tools.
- Green fodder production and conservation and demonstration of low cost hydroponic unit.
- Rumen microbial diversity and rumen metabolites.
- Feed additives, nutraceuticals and, feed quality and safety.
- Enteric methane emission, climate change and its effect on livestock productivity.
- *In vitro* techniques (Radio frequency based gas production) for determining feed digestibility.
- Simulation of abiotic stress in farm animals using climate chamber.

Travel and Accommodation

The expenditure on travel by all selected participants from SAUs, ICAR institutes and other organizations will be paid as per their entitlement for the class of travel, restricted to the maximum of AC II Tier fare by the shortest route. Participants are required to produce the original and photocopies of tickets in support of their claim. Free boarding and lodging facilities will be provided to the outstation participants as per the rules of ICAR's norms and guidelines of winter school. Local participants will be provided only working lunch, session tea and course materials as per ICAR norms.

Participants are advised not to bring their families, as accommodation for them will not be entertained.

Covid-19 advice

The following points must be followed as per the COVID-19 situations and guidelines.

- Only fully vaccinated participants will be allowed to participate in the winter school.
- Few changes in training formats may be incorporated based on the COVID-19 scenario at that time.
- Wearing a properly fitted mask, maintaining physical distancing during lecture, practical, field visit and while staying in guest house has to be followed.
- Other COVID-19 protocols (as per MHA Guideline, GOI and State Government) issued from time to time must be followed during the winter school.

